# Will This Airman's Dream Come True?

FOURTH OF JULY NUMBER

# Life

PRICE 10 CENTS
Vol. 64, No. 1653. July 2, 1914
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WHEN JOHNNY COMES MARCHING HOME

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By ERNEST HAROLD BAYNES

## The Old Barn Door
By HENRY WYSHAM LANIER

# Country Life in America



THE GARDEN MAGAZINE
DOUBLEDAY, PAGE & CO.
THE WORLD'S WORK

How the gun in the Vickers machine looks to the gunner.

# Novelties in Aeroplane Design

## A Sixty-Mile-an-Hour Gun-Carrying Biplane of Steel

## A Flying Machine Which is a Mechanical Equivalent of a Soaring Bird

The gunner in the Vickers machine sits in front of the pilot.

### A Gun-carrying Biplane

By Major B. Bunnerman-Phillips

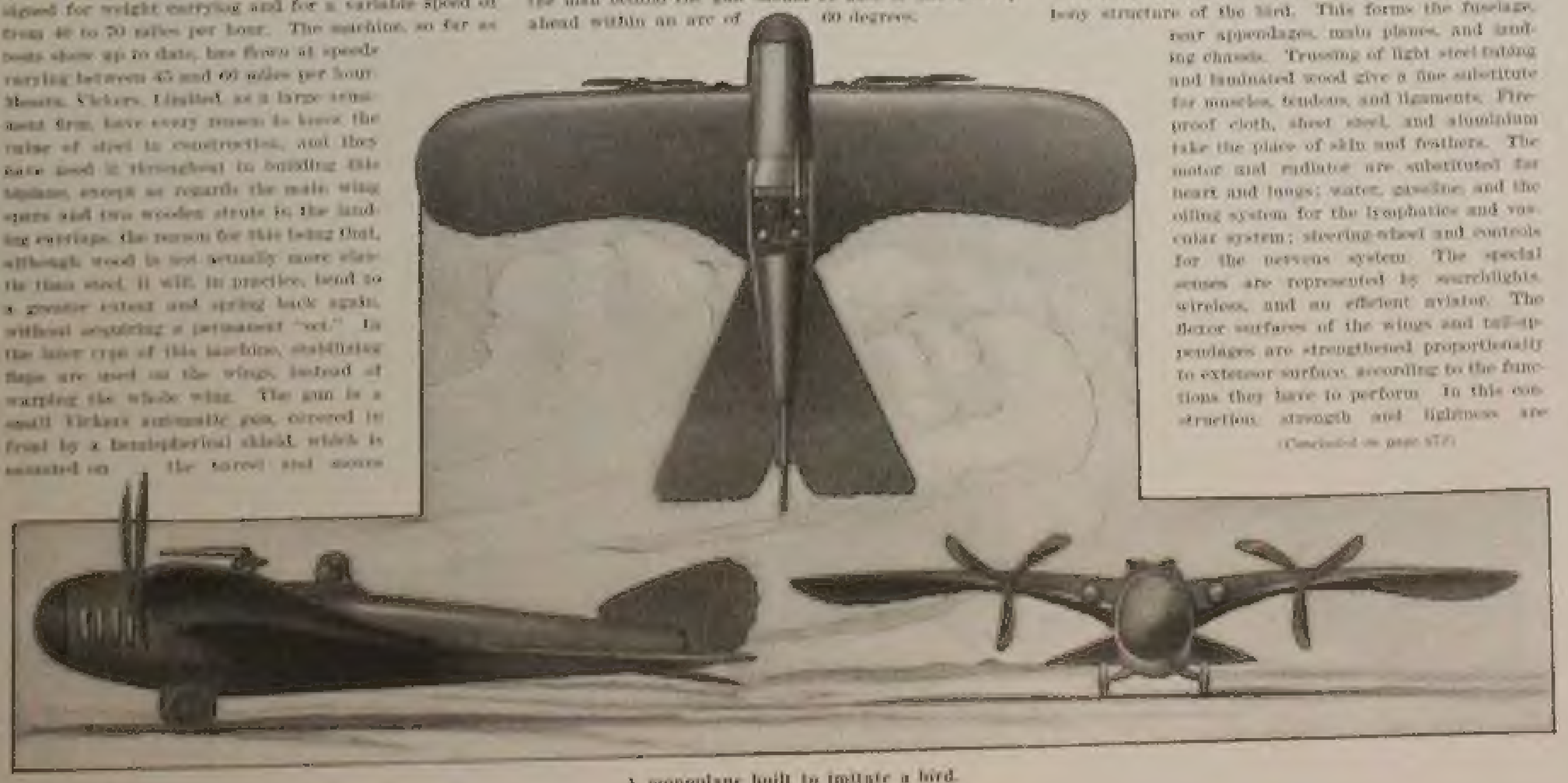
UP to the present guidance in aeronautics, from the military point of view, has been directed mainly toward obtaining the best possible method of aerial transport for purposes of reconnaissance, although the question of offense, by means of guns and dropped projectiles, has not been lost sight of, and many experiments have been made with both airships and aeroplanes, though with results which can hardly be called decisive, in so far as they concern fighting in the air between aircraft. There are many who still hold that the business of the latter is scouting, and that, for the present at any rate, speed is more essential than ability to attack, since the first flight would have the advantage of the armed machine, which, having to carry a gunner besides guns and ammunition, is bound to be heavy and slow in pursuit, and will not be able to get within range of the fugitive, the single occupant of which will obtain all the information which it is possible for an overhead observer to get, in spite of threatened opposition.

Others again hold that the opposition of the fighting aeroplane will be effective to prevent other aircraft from proceeding a successful reconnaissance, and that, if information is to be obtained, it will have to be fought for in the air.

The fighting aeroplane is being evolved to suit the latter view, and, although we have nothing definite in the way of past experience, to go upon, it is none the less interesting to watch the evolution of the avowedly militant types of aircraft which are now being built, and which are especially designed to carry a gun, and one of these is the Vickers fighting biplane, which is shown in the accompanying illustrations. It is designed for weight carrying and for a variable speed of from 40 to 70 miles per hour. The machine, so far as tests show up to date, has flown at speeds varying between 45 and 60 miles per hour. Messrs. Vickers, Limited, as a large armament firm, have every reason to know the value of steel in construction, and they have used it throughout in building this biplane, except as regards the main wing spars and two wooden struts in the landing carriage, the reason for this being that, although wood is not actually more elastic than steel, it will, in practice, tend to a greater extent and spring back again, without acquiring a permanent "set." In the later type of this machine, stabilator flaps are used on the wings, instead of warping the whole wing. The gun is a small Vickers automatic gun, covered in front by a hemispherical shield, which is mounted on the turret and moves with it. The shield is provided with slots or windows, to protect the gunner's eye from the draught of wind caused by the rapid movement of the machine through the air. The muzzle projects through the nose of the fuselage, which itself is entirely covered in, and is carried well forward of the wings. Those who understand the handling of such a gun will appreciate the fact that this is an ideal position for it, affording the utmost obtainable range of view and facility for traversing right and left, and for elevation and depression. This gun-position, of course, involves the necessity for the biplane itself to be of the "pusher" and not of the "tractor" type.

The new Vickers gun-carrying biplane.

The requirements of the British sanitary authorities are complied with, namely, that the machine gun shall have a clear field of fire in every direction up to 30 degrees from the line of flight, or, in other words, that the man behind the gun should be able to fire directly ahead within an arc of 60 degrees.



A monoplane built to imitate a bird.

### Analytical Comparison of the Bird and Monoplane

By James F. Blanchard, B.S., M.D.

FROM the dawn of time man's greatest desire has been to follow the birds through space; but not until the present gasoline motor made its appearance has that longing been realized.

If the minds that developed these wonderful machines which carry us through the air like the birds had kept away from the box-kite idea and followed more closely the anatomy of our feathered friends, the writer (who, by the way, is a physician, but one who has spent considerable time along mechanical lines) believes that more rapid progress would have been made in both pleasure and commercial aircraft.

His interest was greatly stimulated along these lines while spending a winter in Florida, several years ago. The birds of that part particularly interested him, and from these came his inspiration to build more closely along Nature's lines. The gull furnished him with the thought for the water plane, and the buzzard the idea of the land craft. His experience with the anatomy and physiology of these creatures he applied to his experiment, and the results were very gratifying.

After months of exhaustive investigation it was found that the structure of the present-day machines was weak and contrary to the laws of Nature as represented by the original denizens of the air.

It was plain to see that the mechanical bird, to be a success, must be a duplicate of Nature's air-craft, and in order that success shall be obtained, the principles of physiology and anatomy must be applied to this structure.

Pressed steel in suitable form is substituted for the bony structure of the bird. This forms the fuselage, rear appendages, main planes, and landing chassis. Trussing of light steel tubing and laminated wood give a fine substitute for muscles, tendons, and ligaments. Fire-proof cloth, sheet steel, and aluminium take the place of skin and feathers. The motor and radiator are substituted for heart and lungs; water, gasoline, and the oiling system for the lymphatics and vascular system; steering-wheel and controls for the nervous system. The special senses are represented by searchlights, wireless, and an efficient aviator. The flexor surfaces of the wings and tail-up pendages are strengthened proportionally to extensor surfaces, according to the functions they have to perform. In this construction strength and lightness are

(Continued on page 677)

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JANUARY
1914

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May 16, 1914

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WITHOUT Horatio Nelson, England would have been invaded and perhaps conquered by Napoleon. At Trafalgar he smashed forever the French Emperor's hope of creating a naval power. Never was man more idolized and beloved—not only by all of England's people who breathlessly awaited news of his telling victories, but by every man of his fleet. A true Anglo-Saxon, he detested tyrannous powers and legislative usurpations of every kind. He was particularly opposed to prohibitive enactments governing the diet of his men, who, like him, enjoyed Barley-Malt brews, even as their fathers did for countless generations before. Good beer, according to Lord Nelson, has ever been good food. Budweiser Beer for 57 years has been the product of an institution holding the highest ideals known to the art of brewing. The output, due to Quality and Purity, has increased every year until 7,500 men are daily required to keep pace with the public demand. Budweiser sales exceed any other beer by millions of bottles.

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## If the Court Please!

IT would not be contempt, we trust, to wonder if the Supreme Court of the United States is ever going to catch up with its docket. It is now said to be buried under an accumulation that puts it two years behindhand. This causes some of our esteemed contemporaries timidly to criticize the court for going on a four-months' vacation. In the abstract (whatever that is) there may be no valid objection to a vacation of four months with pay. Most any of us would take it if we could get it, but, alas! we can't. Least of all can the litigants escape, for four sweet months, the uncertainties which the court's delay puts upon them. Supreme Court Justices, as individuals, should take all the vacations they really need, but the Supreme Court, as an institution, ought to remain steadily on the job until it catches up. Justice delayed is justice diluted.

*E. O. J.*

## Handy Manual for Magazines

SHORT STORY: Four pages of type that nobody reads. This includes the artist who illustrates it, and the editor.

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FOURTH-CLASS MATTER: See contents.

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CONTENTS: See fourth-class matter.

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# The Night Before Christmas

By Mary A. Hays

THE first thing to do in this game where you just "make believe" is to cut out the picture of the room. Cut on the dark line that goes all around. Paste this picture on a piece of stiff paper so it will stand up straight, and make a cut on each of the dotted lines. There is one on the bed near the pillow, another on one of the bedposts, and one on the floor in front of the chair. Next cut out the figure of the mother, including the little white space under her feet, which, when inserted in one of the cuts, will make her stand up. Then cut out the figure of the little girl—we will call her "Betty"—then the tree and all the other things. The white marks on the tree show where she should be made to put the candles in.

Now we are ready to "make believe" that little Betty is going to bed on Christmas Eve. Her mother takes off the little play dress and puts on the little white nightgown, and after Betty says her evening prayer and hangs her stocking on the foot of the bed she gets in.

Next, if you will get your mother to tell you a bedtime Christmas story you can tell it to Betty and pretend her mother is telling it to her. Then after Betty has turned over and has gone to sleep the real fun begins, for you help your mother set up the Christmas tree and put on the star and candles and other trimmings you have cut out, and then from among the other things you have left you select those you think Betty would most like to have, and put them under the tree, where Betty can find them the first thing in the morning.

Now I am sure you will want to be quite still for a little bit while you pretend it is night, and then Betty will be ready to turn over again and wake up, after which she will want to get up, and you can help her put on her little play dress, and she will be all ready to enjoy the things you have arranged for her. And I shouldn't wonder if you would have so much fun in being a play Santa Claus for Betty that you will want to be a real one for some little child whom you know, and will look around you to see whom you can make happy by sharing with her some of the good things that come to you at Christmastime.

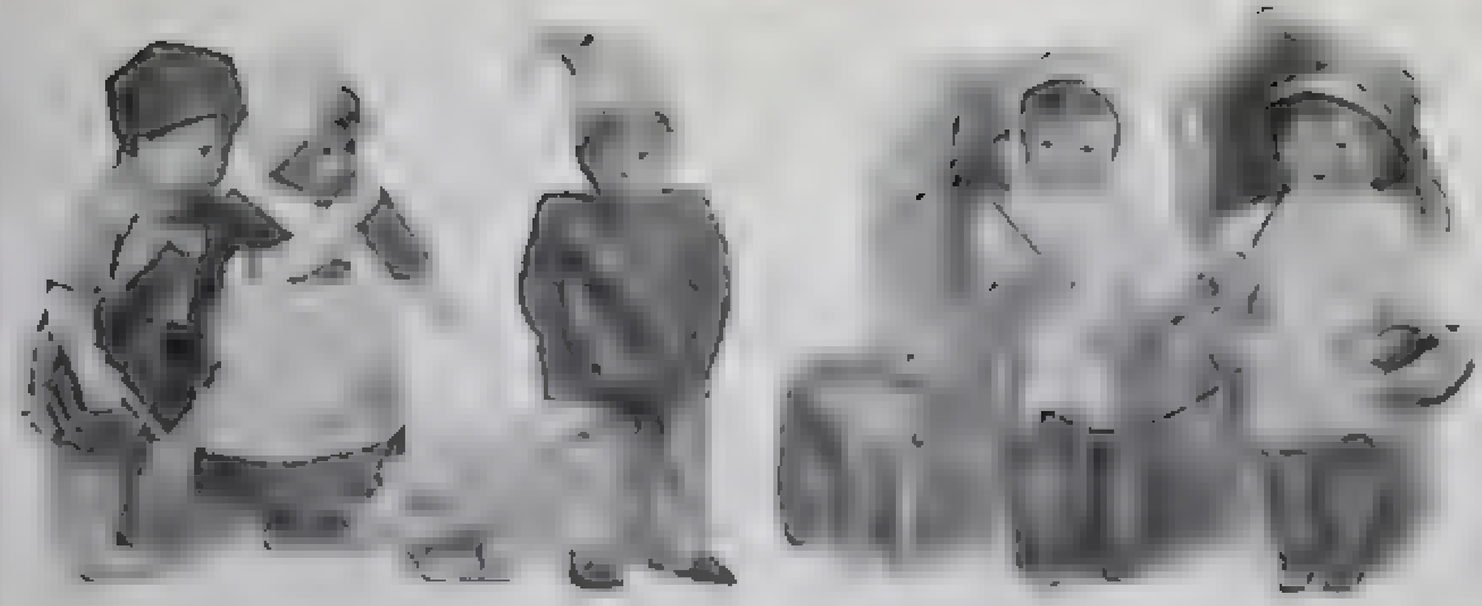
10¢

# Leslie's

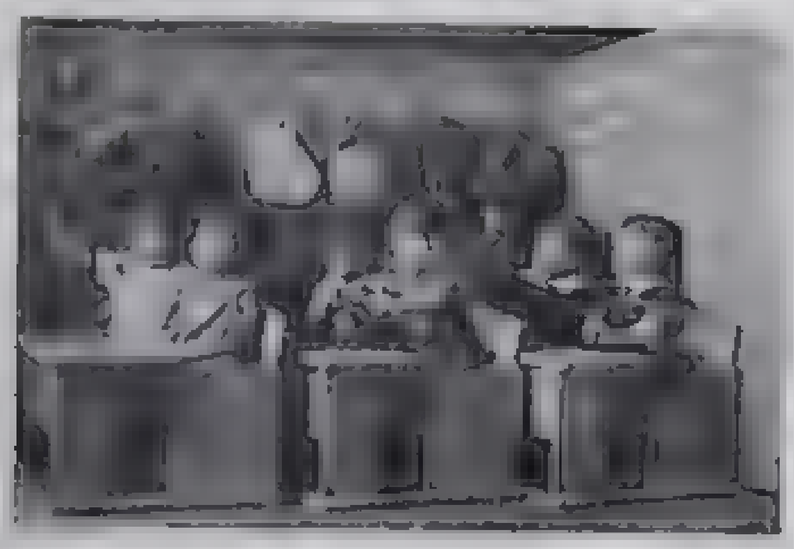
Illustrated Weekly Newspaper

BRINGING HOME THE HOLLY

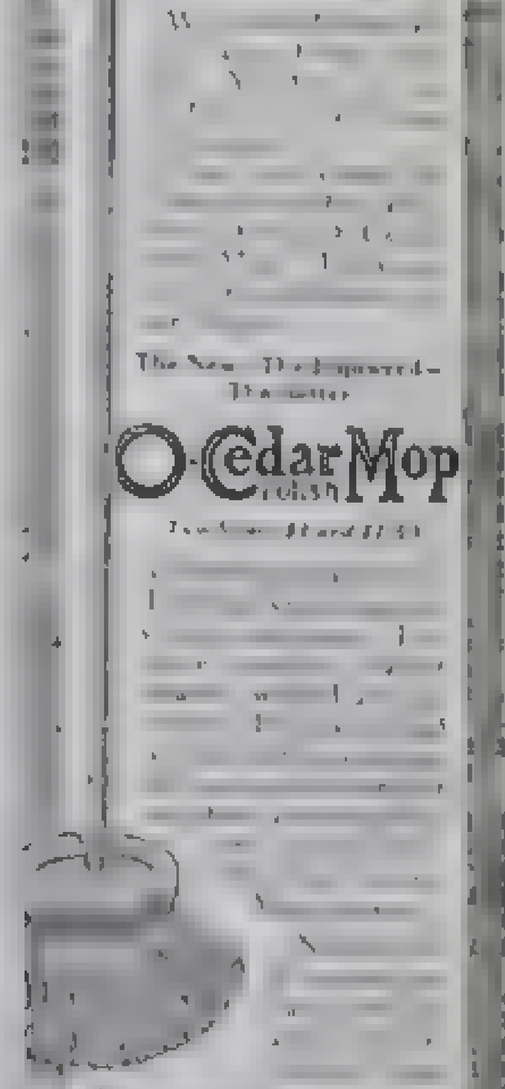
Life

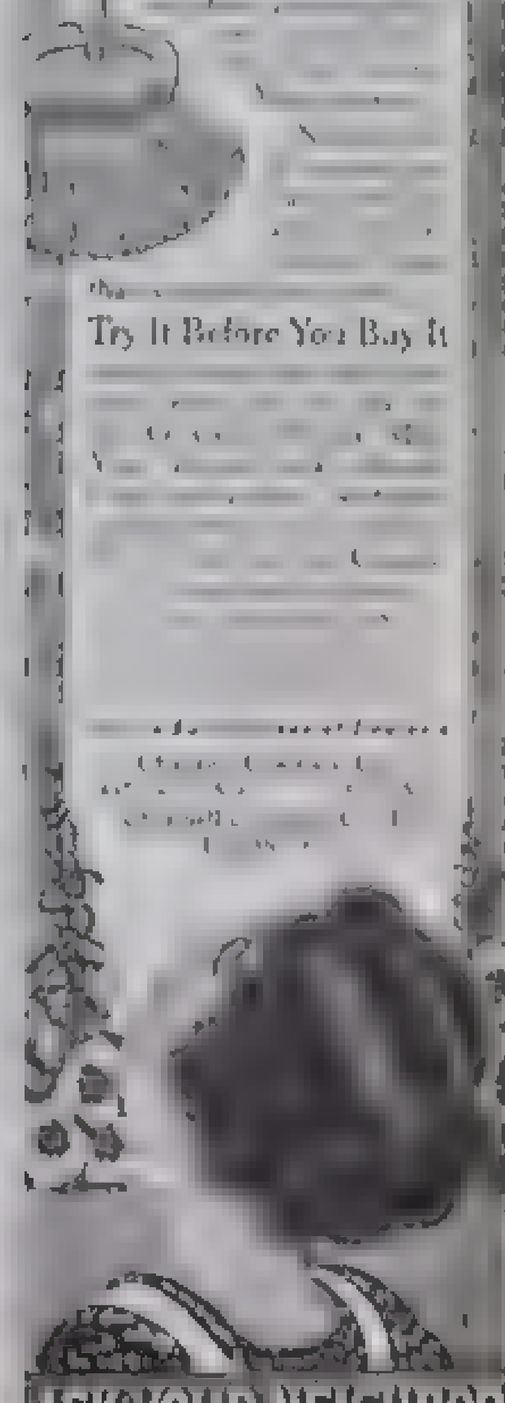


Playing With the Christmas Doll



"Sure, Mine is an O-Cedar Mop



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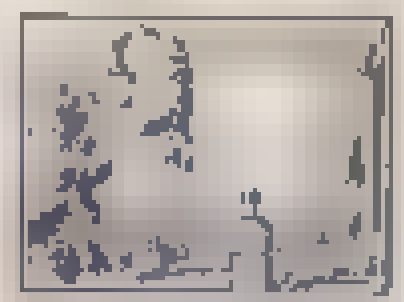
REMARKABLE MANUAL OF HOME HAIR-DRESSING

**FREE!**

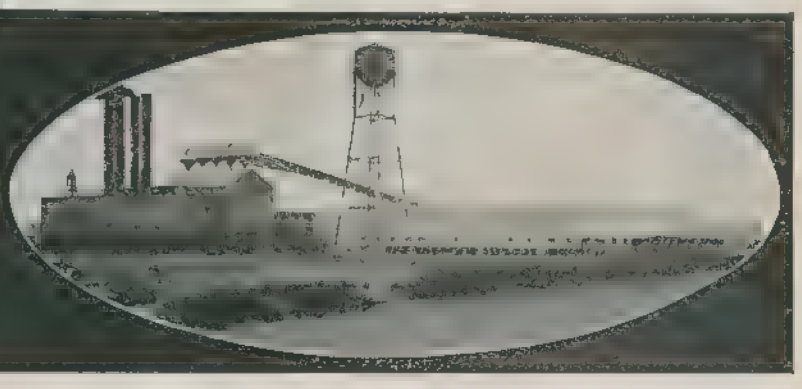
HOW TO KNOW WHICH STYLE BEST SUITS YOUR FACE

Mlle Edwards and Barbara Bee-Bell Paris, explains why there is a Special Individual Problem in Hair-Dressing for every type of Face, and how it is necessary always to Choose the Correct One to Look Your Best.



—COUPON

# EL PASO, TEXAS, Extends a Happy New Year to All



*IN extending a Happy New Year, El Paso, Texas, does so with a feeling of greatest satisfaction. No city on the American continent is as happily situated from a commercial standpoint, and her remarkable growth during 1913 bids fair to be duplicated the coming year.*

## EL PASO, TEXAS, is 600 Miles from Competition

Geographically speaking, El Paso is unique. It is fully 600 miles, in any direction, to any city that is in any way a competitor of El Paso. This, in a way, explains El Paso's remarkable growth during the past few years.

## EL PASO, TEXAS, Exemplifies Southwestern Progress

In sending her New Year Greeting, El Paso calls attention to what she already has. El Paso has over 50,000 population, a commission form of government, eight parks valued at over $3,000,000, thirteen public and nine private schools, voted $390,000 good roads bonds last year. El Paso has the principal U. S. customs port on the Mexican border and one of the most important in the United States, the largest wood finishing and box factory in the world, the second largest custom smelter in the world. El Paso has four trans-continental railroads on which forty trains arrive and depart each day, 45 miles of electric car lines, 35 miles of paved streets, 81 miles of cement sidewalks. El Paso has a million dollar hotel, forty churches, eighty-five clubs, lodges and societies, a Masonic Temple costing $150,000, an Elks Club and Toltec Club. El Paso has gas, electric lights and telephones, not only in the city proper but in most of the suburbs. El Paso has a plentiful supply of good water. El Paso has four national banks, six state banks and one exclusive mortgage company, with total banking assets of $21,000,000.

*El Paso proper and her trade territory offer wonderful opportunities in merchandising, agriculture, manufacturing, horticulture—in fact there is hardly a pursuit known in which you cannot do better in El Paso, and the Southwest, than anywhere in the United States.*

***The stopover privilege is allowed on all railroads that pass through El Paso. This applies not only to railroad tickets but to Pullman sleeping car tickets as well. Avail yourself of this privilege.***

PICTURES SHOWN—$150,000 Masonic Temple, Parked Street in December, El Paso High School, Largest Wood Finishing and Box Factory in the World

**An inquiry addressed to A. W. Reeves, Secretary, Chamber of Commerce, El Paso, Texas, will result in your receiving interesting literature concerning El Paso especially and the Southwest generally.**

LIFE·

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Why not count you as one of your own friends why not take a dollar give yours it the on

year's supply of

VANITY FAIR

Christmas has an after math—a feeling, when it is all over, that you have nothing much to show for it. But Vanity Fair's monthly visits will, for a long time to come, remind you of your forethou in getting one you have really

VANITY

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BECAUSE the Engineering Departments of all the leading cars have tested Snubbers and recommend them. Ask the Engineering Department of YOUR car.

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BECAUSE they save wear and tear on car, make it last longer and run quieter; are easy to put on, noiseless and require no adjusting, but outlast the car.

BECAUSE their simple design and our immense production brings the price down to $15, $20, $25 per set of four; half that per pair.

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VOL. 16
NO. 1

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1914

FIFTEEN CENTS

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But it is a mistake to try to give it a new finish by applying polish over the old. This merely sets the dirt and produces an uneven, sticky surface which grows worse with successive coats.

The furniture expert, on the contrary, aims to restore the beauty of the original finish by freeing it from the obscuring film of dirt. Taking a soft sponge, he goes over a small portion at a time with lukewarm Ivory Soap suds. Then he rinses with as little water as possible, dries with cheese cloth and polishes with a chamois. If the piece is badly soiled, he adds a few drops of kerosene to the suds.

This treatment cannot possibly injure the varnish because Ivory Soap contains no harmful ingredients—no free alkali, no grit, no harsh materials of any kind. And it does not leave a greasy film upon the surface because Ivory Soap contains no unsaponified oil to stick to the varnish. All that is necessary is to work quickly so as not to leave streaks.

IVORY SOAP. . . IVORY . . . 99 44/100 % PURE

*The Sporting Editor reported it this way*

Our boys came to bat in the last half of the ninth with the score tied. Brady tallied. Stimson walked. He went to second while Griggs was thrown out at first. Pig Ed Darrows, looking beyond the pitcher to the club house in center field with its cooling shower, thought this a good time to end the day's toil and sent the first ball safely to right, bringing in Stimson with the winning run

¶ Of course, the sporting editor thought that he was cracking a joke at Big Ed's expense when he confided to the fans the supposed motive power behind that hit to right. But there was more fact than fancy in his observation. Indeed, Ed saw with his mind's eye not only the refreshing shower but a big cake of Ivory Soap waiting to free his hot, chafing skin from the dust and sweat of the contest. ¶ Under these conditions could you blame him for spoiling an extra-inning game?

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HISTORY AS IT MIGHT HAVE BEEN

KING ARTHUR AND HIS ROUND TABLE

CLUBS WE DO NOT CARE TO JOIN

THE LITTLE-DEEDS-OF-KINDNESS CLUB

MARY GARDEN

# THE SATURDAY EVENIN POST

An Illustrated Weekly
Founded A. D. 1728 by Benj. Franklin

JULY 4, 1914

DAUGHTERS OF SHILOH—BY RUPERT HU

# A Victrola for Christmas

The world's best music and entertainment for the entire family—and all your friends besides.

Christmas time—and all the time.

There are Victors and Victrolas in great variety of styles from $10 to $200, and there are Victor dealers in every city in the world who will gladly demonstrate them and play any music you wish to hear.

**Victor Talking Machine Co., Camden, N. J., U. S. A.**

Berliner Gramophone Co., Montreal, Canadian Distributors

Always use Victor Machines with Victor Records and Victor Needles - *the combination* There is no other way to get the unequaled Victor tone

**New Victor Records demonstrated at all dealers on the 28th of each month**

# The perfect music of the Victrola gives dancing a new delight

The Maxixe, the Hesitation, the One-Step, the Tango, have made dancing a favorite diversion, but it is the Victrola that has made them so universally popular—that brings them into every home.

With the Victrola it is easy to learn all the new dances—and to dance them whenever and as often and as long as you wish.

And they are all thoroughly enjoyable, because Victor Dance Records are perfect in volume, in tone, in rhythm—in every way.

Victor Talking Machine Co., Camden, N. J., U.S.A.

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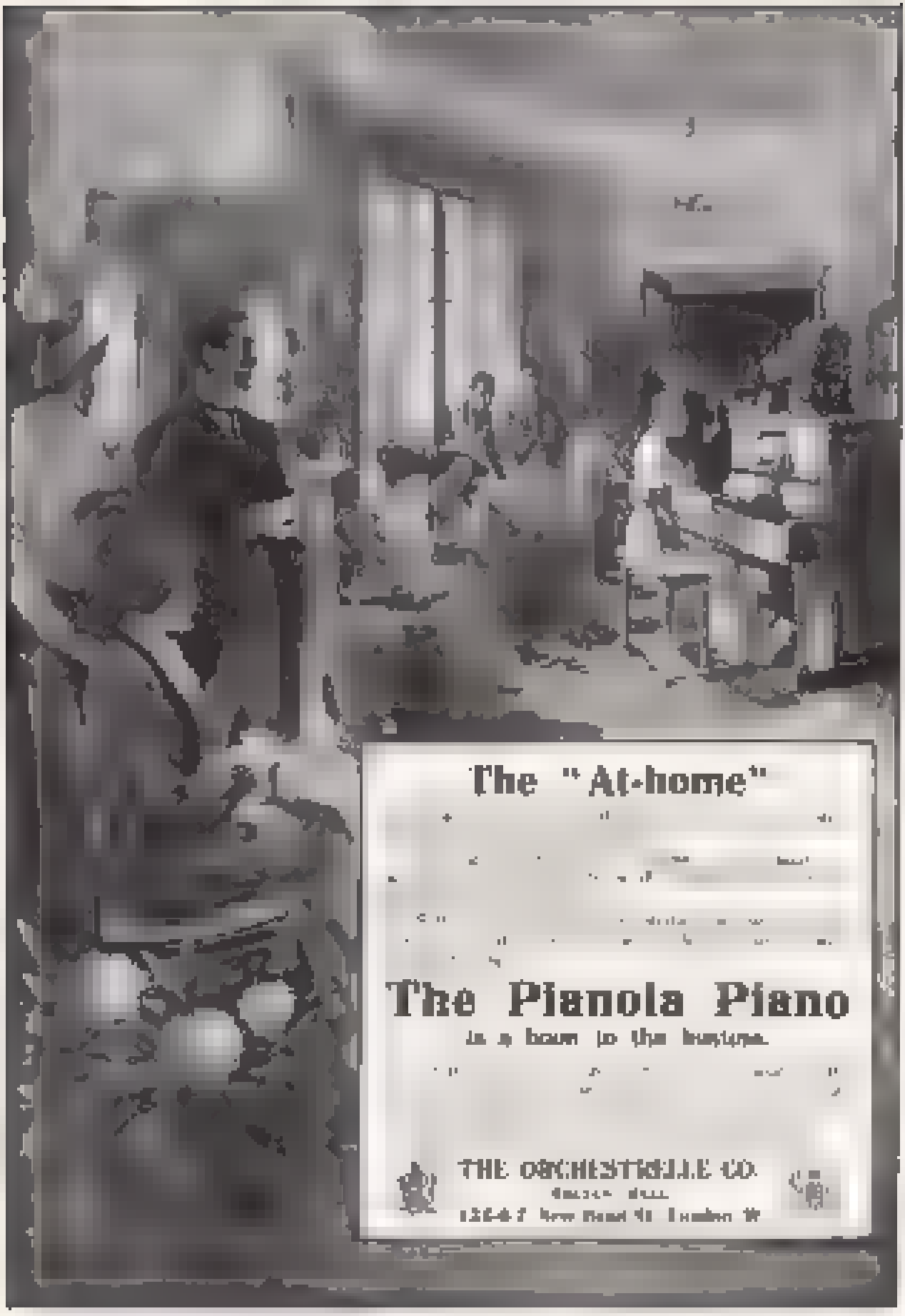
New Victor Records demonstrated at all dealers on the 28th of each month

OCCIDENT
Costs More
— Worth It


The "At-home"
The Pianola Piano
is a boon to the business.
THE ORCHESTRELLE CO.

SPRING FASHIONS FOR THE SOUTH MODES OF THE NEW SEASON FROM MONTE CARLO

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## LIST PRICES EACH

**14K SOLID GOLD**

The watch case is 14k gold, with extension 14k plain bracelet, fitted with Lady Elgin Nickel movement, closely timed, finest finish, pendant setting

No. 2830 10x0 size, 15 jewel, Lady Elgin, complete . . . . . $134.65
No. 2831 10x0 size 17 jewel Lady Elgin, complete . . . . . 146.35

**14K SOLID GOLD**

Watch case is 14k gold, has fancy chased bezel, with 14k extension bracelet, chased band fitted with following movements. Reliable and guaranteed

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No. 2833 Waltham, Jewel Sapphire 15 jewels . . . . . 135.45
No. 2834 Waltham Jewel, Ruby, 17 jewels . . . . . 140.40

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Watch case is 14k gold, with extension 14k plain bracelet. Fitted with following movements. Reliable and guaranteed.

No. 2835 Jewel size, Tavanne, 7 jewels $102.85
No. 2836 Lady Elgin, 5-0 size 15 jewels 123.05
No. 2837 Waltham Jewel, Sapphire, 15 jewels . . . . . $123.05
No. 2838 Waltham Jewel, Ruby, 17 jewels . . . . . 128.00

**14K SOLID GOLD**

Watch case is 14k gold, fitted with extension 14k plain bracelet, center link has patent safety clasp which opens and permits convenient fitting to wrist. Fitted with following movements. Reliable and guaranteed.

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**The Most Attractive and Practical Bracelet Ever Manufactured; Popular Because They Are Useful and Handy; The Most Convenient of All Watches for Shopping and All Outing Purposes.**

(Illustration shows bracelet displayed on a plush pad.)

**DUEBER HAMPDEN, SOLID GOLD CASE**

Dueber 8-0 size, 10k solid gold plain case, full open face, attached to a double gold filled stock expansion bracelet, center link has patent safety clasp, which opens and permits convenient fitting to wrist. Fitted with 7 jewel nickel Hampden Molly Stark movement, second hand pendant set. Guaranteed to give satisfaction

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10 ligne gold filled case, guaranteed 20 years, attached to a double gold filled stock extension bracelet center link has patent safety clasp, which opens and permits convenient fitting to wrist, Alden 7 jewel lever movement with double roller.

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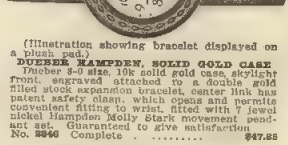


(Illustration showing bracelet displayed on a plush pad.)

**DUEBER HAMPDEN, SOLID GOLD CASE**

Dueber 8-0 size, 10k solid gold case, skylight front, engraved attached to a double gold filled stock expansion bracelet, center link has patent safety clasp, which opens and permits convenient fitting to wrist, fitted with 7 jewel nickel Hampden Molly Stark movement pendant set. Guaranteed to give satisfaction

No. 2846 Complete . . . . . $47.85

**THE BRISTOL, GOLD FILLED**

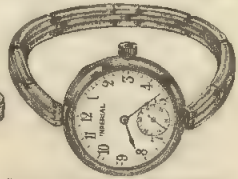
4-0 size, Fahy's bristol, 25-year guaranteed case, fancy chased bezel attached to the American Beauty, double gold filled stock extension bracelet, center link has patent safety clasp; which opens and permits convenient fitting to wrist, fitted with the Bristol 7 jewel lever movement reliable and guaranteed.

No. 2847 Complete . . . . . $46.10

**GOLD FILLED, RELIABLE QUALITY**
**Adjustable Links**

Wadsworth gold filled extension bracelet, made of 1-10 stock, guaranteed to give entire satisfaction. Gold filled case with fancy chased bezel, showing skylight dial, guaranteed to wear 20 years. Fitted with following lever movements, reliable and guaranteed

No. 2848 Jewel size Tavanne, 7 jewels $41.50
No. 2849 Elgin, 5-0 size, 15 jewels . . . . . 61.85
No. 2850 Waltham, Sapphire, 15 jewels . 61.85
No. 2851 Waltham, Ruby, 17 jewels . . . . 66.65




**GOLD FILLED, RELIABLE QUALITY**
**THE IMPERIAL**

Gold filled, adjustable extension bracelet, narrow bar links, guaranteed to give entire satisfaction, case is gold filled, guaranteed for 20 years.

**Fitted with**

jewel size. 7 jewel lever movement, reliable and guaranteed.

No. 2852 Complete . . . . . $33.50

**GOLD FILLED, RELIABLE QUALITY**

Gold filled, adjustable extension bracelet, narrow bar links, guaranteed to give entire satisfaction The case is gold filled, regular B. & B. Royal, guaranteed for 20 years.

**Fitted with**

following lever movements, reliable and guaranteed.

No. 2853 Jewel size, Tavanne, 7 jewels $40.80
No. 2854 Jewel size, Tavanne 15 jewels 50.35
No. 2855 Elgin 5-0 size, 15 jewels . . 61.00
No. 2856 Jewel size, Waltham, Sapphire, 15 jewels . . . . . 61.00
No. 2857 Jewel size, Waltham, Ruby, 17 jewels . . . . . 65.95

# New Bracelet Watches Fitted With Reliable Movements

**The watch that needs no pocket. Is worn by the ladies, the cavalrymen, the farmer, the motorist, and gentlemen in all walks of life. There is a wonderfully big demand for a Wrist Watch. We have had calls for many months. They are light and easy to wear—out of sight and out of way when not needed. A turn of the arm brings it instantly into view**

**GOLD FILLED, RELIABLE QUALITY**

Keystone adjustable extension bracelet, narrow bar links, guaranteed to give entire satisfaction. The case is gold filled, regular B. & B. Royal stock, 0 size, guaranteed 20 years, plain jointed back. Skylight bezel hand engraved design.

**Complete with following well-known guaranteed movements**

No 2858 N. Y. Standard, 7 jewels.....$27.05
No 2859 Elgin 7 jewels ..... 35.95
No 2860 Waltham, 7 jewels. . . . . 35.95
No 2861 Elgin, 15 jewels . . . . . 45.95

**CARMEN BRACELET WATCH, GOLD FILLED**

Heavy filled stock guaranteed to give entire satisfaction to the wearer, extension fits any wrist. The case is gold filled with the regular guaranteed stock, 0 size, plain polished, back and bezel.

**Complete with following well-known guaranteed movements**

No 2862 N. Y. Standard, 7 jewels..... $30.00
No 2863 Elgin 7 jewels ... ... . 40.00
No 2864 Waltham 7 jewels 40.00
No 2865 Elgin, 15 jewels 50.00

**GOLD FILLED, RELIABLE QUALITY**

Keystone adjustable extension bracelet, narrow bar links, made of 1-10 gold filled stock, guaranteed to give satisfaction. The case is gold filled with the regular B. & B. Royal 20-year guaranteed stock. Skylight plain bezel, plain back.

**Complete with following movements, reliable and guaranteed**

No. 2866 N. Y. Standard, 0 size, 7 jewels $27.05
No 2867 Elgin, 0 size 7 jewels..... 35.95
No. 2868 Waltham, 0 size, 7 jewels 35.95
No 2869 Elgin, 0 size, 15 jewels . . . . 45.95

**GOLD FILLED, RELIABLE QUALITY**

Adjustable extension bracelet, narrow bar links, guaranteed to give entire satisfaction. The case is gold filled, regular B. & B. Royal stock, 0 size, guaranteed 20 years, plain jointed back.

**Complete with following well-known guaranteed movements**

No 2870 N. Y. Standard, 7 jewels.....$27.05
No 2871 Elgin, 0 size, 7 jewels..... 35.95
No 2872 Waltham 0 size, 7 jewels..... 35.95
No 2873 Elgin, 0 size, 15 jewels..... 45.95

**THE ELGIN STRAP WATCH FOR OUTDOOR MEN TO WEAR ON THE WRIST**

Solid nickel, open face, jointed back case, with double roller safety action, fully guaranteed 7 jewel Elgin movement.

No. 2874 With leather strap, complete...$22.70

**GOLD FILLED BRACELET WATCH "NEW ENGLAND"**

In special bassine 20-year gold filled case attached to a standard extension gold filled bracelet, narrow adjustable links with sufficient expansion to fit any wrist. Carries our jeweled lever movement of guaranteed accuracy.

No. 2875 Complete .....$22.95

**8 SIZE QUEEN WRIST WATCH, LEATHER STRAP**

Open face plain case, jointed back fitted with N. Y. Standard 7 jewel nickel movement

No 2876 B. & B. Royal 20-year gold filled case complete. . . . . $13.95
No 2877 Sterling silver case, complete. 17.05
No 2878 Solid gold case complete. . . . 14.40

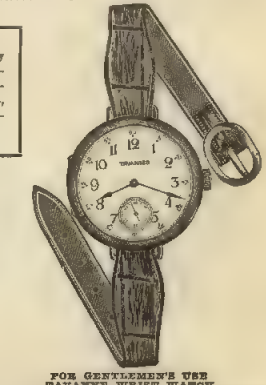
**Elgin or Waltham 7 jewel movements furnished for $10.75 additional.**

**Wrist Watches are being used extensively by men as well as women. Just the thing for horsemen, military men, motor cyclists, golfers, mounted policemen, hunters, sportsmen, chauffeurs, automobilists, mining prospectors; also for shopping and all outing purposes.**

**NEW ENGLAND WRIST WATCH**

New England lever movement with gold filled, sterling silver or gun metal case, and a new strap design in seal or pig skin

No 2878 With silver case. . . . . $17.70
No 2880 With gun metal case . . . . 17.70
No. 2881 With gold filled 20-year case.. 21.20



**FOR GENTLEMEN'S USE TAVANNE WRIST WATCH**

**Watch is very flat. Does not interfere with cuff or sleeve.**

0 size, open face, very flat, high polished case, jointed back and bezel, fitted with a reliable 7 jewel lever Tavannes movement. Guaranteed. Leather band in assorted colors, tan green and blue

No 2882 Sterling silver case complete $2.30
No 2883 Gun metal case, complete ... $2.15
No. 2884 Nickel case, complete ..... $2.15

**THE INGERSOLL WRIST WATCH**

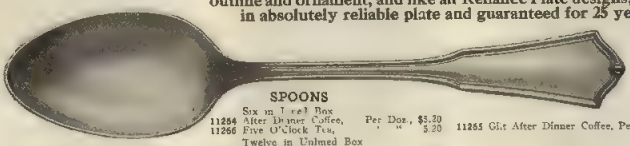
The Ingersoll Midget Wrist Watch is a modification of the little Midget ladies' model Ingersoll. Straps which are made to fit any wrist are of pig skin and seal leathers of the finest selected stock.

No. 2885 Gun metal finish case. each $5.85

No. 2886 Nickel finish case.....each 5.85

# RELIANCE PLATE

**The Exeter, the latest design in Reliance Plate, is unusually beautiful. It is purely Colonial in outline and ornament, and like all Reliance Plate designs, is made in absolutely reliable plate and guaranteed for 25 years.**



## SPOONS

Six in Lined Box

11254 After Dinner Coffee, Per Doz., $5.30
11266 Five O'Clock Tea, " " 3.20

Twelve in Unlined Box

11267 After Dinner Coffee, " " 4.87
11269 Five O'Clock Tea, " " 4.87
11270 Tea, " " 4.87
11271 Dessert, " " 8.70
11272 Table, " " 9.73

11265 Gilt After Dinner Coffee, Per Doz., 9.73

11268 Gilt After Dinner Coffee, Per Doz., 9.40

Reproduction same size

## NOT ILLUSTRATED HOLLOW HANDLE FORK

Six in Flannel Roll

11273 Medium, Per Doz., $27.10
11274 Dessert, " " 26.07

## HOLLOW HANDLE KNIVES

Six in Flannel Roll

11275 Medium, Per Doz., $27.10
11276 Dessert, " " 26.07

## FLAT HANDLE FORKS

Twelve in Unlined Box

11277 Dessert, Per Doz., $8.70
11278 Medium, " " 9.73

## SOLID HANDLE EMBOSSED KNIVES

Six in Racked Box

11279 Medium, Per Doz., $11.27
11280 Dessert, " " 10.97

## SOLID HANDLE EMBOSSED FORKS

Six in Racked Box

11281 Medium, Per Doz., $11.27
11282 Dessert, " " 10.97

## BUTTER KNIFE

11283 Six in Unlined Box. Plain, Per Doz., $ 9.53
11284 One in Lined Box. Plain, Per Doz., 12.17

## SOUP SPOON

11287 Twelve in Unlined Box. Per Doz., $11.10

## ORANGE OR GRAPE FRUIT SPOON

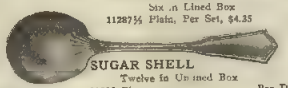
Six in Lined Box

11285 Plain, Per Set, $4.17 11286 Gilt, Per Set, $7.25

## OYSTER FORK

Six in Lined Box

11287½ Plain, Per Set, $4.35



## SUGAR SHELL

Twelve in Unlined Box

11290 Plain, Per Doz., $8.70
11291 Gilt, " " 13.90

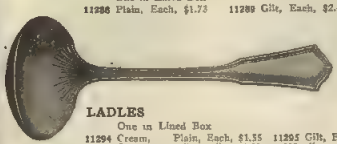
One in Lined Box

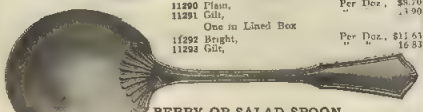
11292 Bright, Per Doz., $11.63
11293 Gilt, " " 16.83

## COLD MEAT OR SALAD FORK

One in Lined Box

11288 Plain, Each, $1.73 11289 Gilt, Each, $2.45





## LADLES

One in Lined Box

11294 Cream, Plain, Each, $1.55 11295 Gilt, Each, $2.39
11296 Gravy " " 2.09 11297 " " 3.20
11298 Med. Soup, " " 5.53 11299 " " 6.95

## BERRY OR SALAD SPOON

One in Lined Box

11300 Plain, Each, $2.75 11301 Gilt, Each, $3.85

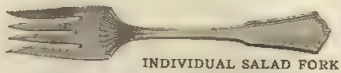
Reproduction one-half size

## EXETER DESIGN

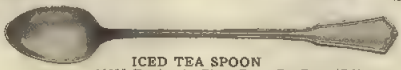
**Reliance Plate must not be advertised or sold below the established re-sale prices. These prices may be obtained from us.**

# RELIANCE PLATE

**HOLLOW HANDLE ORANGE KNIFE**
Six in Lined Box
11302 Per Set, $13.07



**INDIVIDUAL SALAD FORK**
Six in Lined Box
11303 Plain, Per Set, $6.50
11304 Gilt, " " 9.55



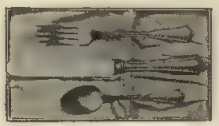
**ICED TEA SPOON**
11305 Twelve in Plain Box. Per Doz., $7.30

**HOLLOW HANDLE FRUIT KNIFE**
11306 Six in Lined Box. Per Set, $12.17

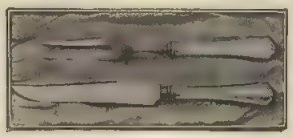
**BUTTER SPREADER**
11307 Six in Lined Box, plain, Per Set, $5.90

**HOLLOW HANDLE PIE SERVER**
11308 One in Lined Box. Each, $3.85

Reproduction one-half size.



**THREE PIECE CHILD SET**
One Set in Lined Box Set
11309 Hollow Handle Knife, $4.15
11310 Solid Handle Emb. Knife 2.93
11311 Flat Nickel Knife, 2.75

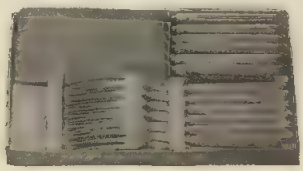


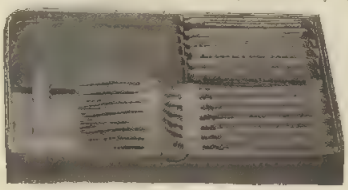
**SMALL CARVING SET**
11312 One Set in Lined Box. Per Set, $8.70

**BUTTER KNIFE AND SUGAR SHELL**
One Set in Lined Box
11313 Plain, Per Set, $1.77
11314 Gilt, " " 2.20

**NOT ILLUSTRATED**

11315 Bouillon Spoons, Six in Lined Box. Per Set, $4.77
11316 Pickle Fork, One in Lined Box, plain. Each, 1.55
11317 Pickle Fork, One in Lined Box, Gilt. Each, $2.05
11318 Sugar Tongs, One in Lined Box, Gilt. Each, 2.09





**12 pc. EMBOSSED KNIFE AND EMBOSSED FORK SETS**

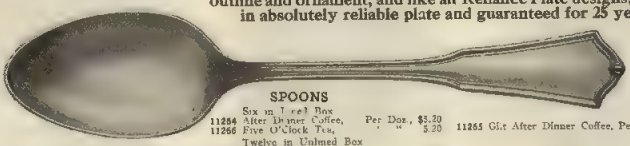
11319 Six each Emb. Med. Knives and Forks. Per Set, $11.27
11320 Six each Emb. Des't Knives and Forks. Per Set, $10.97

EXETER DESIGN

**Reliance Plate must not be advertised or sold below the established re-sale prices. These prices may be obtained from us.**

# RELIANCE PLATE

**The Exeter, the latest design in Reliance Plate, is unusually beautiful. It is purely Colonial in outline and ornament, and like all Reliance Plate designs, is made in absolutely reliable plate and guaranteed for 25 years.**



## SPOONS

Six in Lined Box

11254 After Dinner Coffee, Per Doz., $5.30
11266 Five O'Clock Tea, " " 3.20

Twelve in Unlined Box

11267 After Dinner Coffee, " " 4.87
11269 Five O'Clock Tea, " " 4.87
11270 Tea, " " 4.87
11271 Dessert, " " 8.70
11272 Table, " " 9.73

11265 Gilt After Dinner Coffee, Per Doz., 9.73

11268 Gilt After Dinner Coffee, Per Doz., 9.40

Reproduction same size

## NOT ILLUSTRATED HOLLOW HANDLE FORK

Six in Flannel Roll

11273 Medium, Per Doz., $27.10
11274 Dessert, " " 26.07

## HOLLOW HANDLE KNIVES

Six in Flannel Roll

11275 Medium, Per Doz., $27.10
11276 Dessert, " " 26.07

## FLAT HANDLE FORKS

Twelve in Unlined Box

11277 Dessert, Per Doz., $8.70
11278 Medium, " " 9.73

## SOLID HANDLE EMBOSSED KNIVES

Six in Racked Box

11279 Medium, Per Doz., $11.27
11280 Dessert, " " 10.97

## SOLID HANDLE EMBOSSED FORKS

Six in Racked Box

11281 Medium, Per Doz., $11.27
11282 Dessert, " " 10.97

## BUTTER KNIFE

11283 Six in Unlined Box. Plain, Per Doz., $ 9.53
11284 One in Lined Box. Plain, Per Doz., 12.17

## SOUP SPOON

11287 Twelve in Unlined Box. Per Doz., $11.10

## ORANGE OR GRAPE FRUIT SPOON

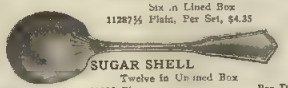
Six in Lined Box

11285 Plain, Per Set, $4.17 11286 Gilt, Per Set, $7.25

## OYSTER FORK

Six in Lined Box

11287½ Plain, Per Set, $4.35



## SUGAR SHELL

Twelve in Unlined Box

11290 Plain, Per Doz., $8.70
11291 Gilt, " " 13.90

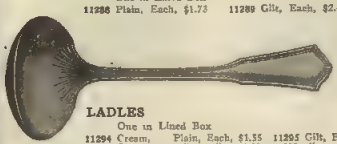
One in Lined Box

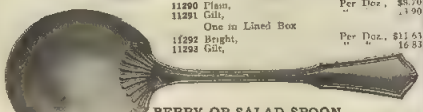
11292 Bright, Per Doz., $11.63
11293 Gilt, " " 16.83

## COLD MEAT OR SALAD FORK

One in Lined Box

11288 Plain, Each, $1.73 11289 Gilt, Each, $2.45





## LADLES

One in Lined Box

11294 Cream, Plain, Each, $1.55 11295 Gilt, Each, $2.39
11296 Gravy " " 2.09 11297 " " 3.20
11298 Med. Soup, " " 5.53 11299 " " 6.95

## BERRY OR SALAD SPOON

One in Lined Box

11300 Plain, Each, $2.75 11301 Gilt, Each, $3.85

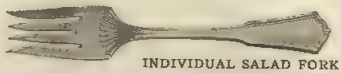
Reproduction one-half size

## EXETER DESIGN

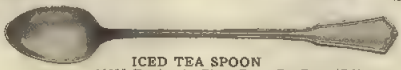
**Reliance Plate must not be advertised or sold below the established re-sale prices. These prices may be obtained from us.**

# RELIANCE PLATE

**HOLLOW HANDLE ORANGE KNIFE**
Six in Lined Box
11302 Per Set, $13.07



**INDIVIDUAL SALAD FORK**
Six in Lined Box
11303 Plain, Per Set, $6.50
11304 Gilt, " " 9.55



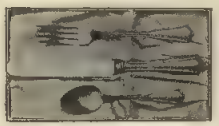
**ICED TEA SPOON**
11305 Twelve in Plain Box. Per Doz., $7.30

**HOLLOW HANDLE FRUIT KNIFE**
11306 Six in Lined Box. Per Set, $12.17

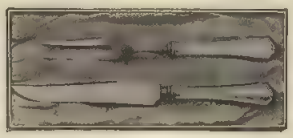
**BUTTER SPREADER**
11307 Six in Lined Box, plain, Per Set, $5.90

**HOLLOW HANDLE PIE SERVER**
11308 One in Lined Box. Each, $3.85

Reproduction one-half size.



**THREE PIECE CHILD SET**
One Set in Lined Box Set
11309 Hollow Handle Knife, $4.15
11310 Solid Handle Emb. Knife 2.93
11311 Flat Nickel Knife, 2.75

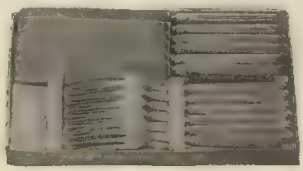


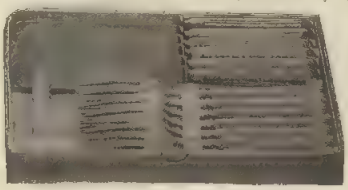
**SMALL CARVING SET**
11312 One Set in Lined Box. Per Set, $8.70

**BUTTER KNIFE AND SUGAR SHELL**
One Set in Lined Box
11313 Plain, Per Set, $1.77
11314 Gilt, " " 2.20

**NOT ILLUSTRATED**

11315 Bouillon Spoons, Six in Lined Box. Per Set, $4.77
11316 Pickle Fork, One in Lined Box, plain. Each, 1.55
11317 Pickle Fork, One in Lined Box, Gilt. Each, $2.05
11318 Sugar Tongs, One in Lined Box, Gilt. Each, 2.09





**12 pc. EMBOSSED KNIFE AND EMBOSSED FORK SETS**

11319 Six each Emb. Med. Knives and Forks. Per Set, $11.27
11320 Six each Emb. Des't Knives and Forks. Per Set, $10.97

EXETER DESIGN

**Reliance Plate must not be advertised or sold below the established re-sale prices. These prices may be obtained from us.**

# RELIANCE PLATE

**Embossed in strong relief, a half circle of roses relieves the plain shield of the new La Rose Pattern, and gives a beautiful finish to this design. The La Rose, like all other Reliance Plate designs, is made in absolutely reliable plate and is guaranteed for 25 years.**

## SPOONS

Six in Lined Box

11368 After Dinner Coffee, Per Doz., $5.20
11369 Five O'Clock Tea, " " 5.20

Twelve in Unlined Box

11372 After Dinner Coffee, Per Doz., $4.87
11373 Five O'Clock Tea, " " 4.87
11374 Tea, " " 4.87
11375 Dessert, " " 8.70
11376 Table, " " 9.73

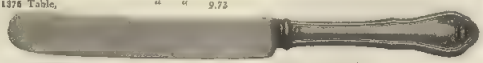
11370 Gilt, After Dinner Coffee, Per Doz., $9.73
11371 Gilt, After Dinner Coffee, Per Doz., 9 40

Reproduction same size

## NOT ILLUSTRATED HOLLOW HANDLE FORKS

Six in Flannel Roll

11377 Medium, Per Doz., $37 10
11378 Dessert, " " 26.07



## HOLLOW HANDLE KNIVES

Six in Flannel Roll

11379 Medium Per Doz., $37 10
11380 Dessert, " " 26.07

## FLAT HANDLE FORKS

Doz. in Unlined Box

11381 Dessert, Per Doz., $8.70
11382 Medium, " " 9.73

## SOLID HANDLE EMBOSSED KNIVES

Six in Racked Box

11383 Medium, Per Doz., $11.27
11384 Dessert, " " 10.97

11385 Medium, Scim and Swa., Per Doz., $17.00
11386 Dessert, " " " " 15.63
11387 Fruit, " " 9.40

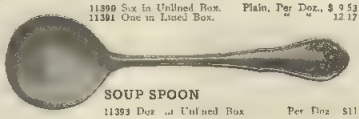
## SOLID HANDLE EMBOSSED FORKS

Six in Racked Box

11388 Medium, Per Doz., 11.27
11389 Dessert, " " 10.97

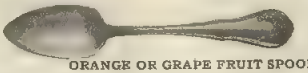
## BUTTER KNIFE

11390 Six in Unlined Box. Plain, Per Doz., $ 9 53
11391 One in Lined Box. " " 12.17



## BOUILLON SPOON

11392 Six in Lined Box. Plain, Per Set, $4.27



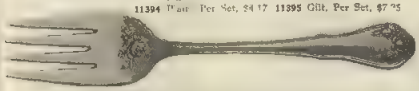
## SOUP SPOON

11393 Doz. in Unlined Box Per Doz. $11 10

## ORANGE OR GRAPE FRUIT SPOON

Six in Lined Box

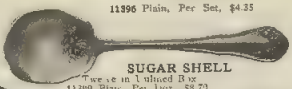
11394 Plain Per Set, $4 17 11395 Gilt, Per Set, $7 95



## OYSTER FORK

Six in Lined Box

11396 Plain, Per Set, $4.35



## COLD MEAT OR SALAD FORK

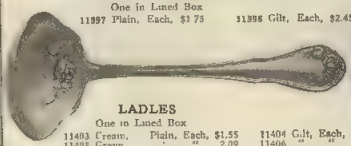
One in Lined Box

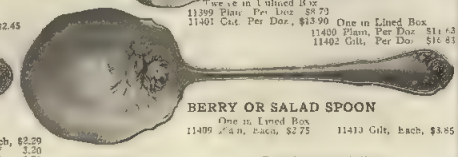
11397 Plain, Each, $1 75 11398 Gilt, Each, $2.45

## SUGAR SHELL

Twelve in Unlined Box

11399 Plain Per Doz. $8 73
11401 Cut Per Doz., $13 90 One in Lined Box
11400 Plain, Per Doz $1 [illegible]
11402 Gilt, Per Doz $16 81





## LADLES

One in Lined Box

11403 Cream, Plain, Each, $1.55 11404 Gilt, Each, $2.39
11405 Gravy, " " 2.09 11406 " " 3.20
11407 Med. Soup, " " 5.52 11408 " " 6.95

## BERRY OR SALAD SPOON

One in Lined Box

11409 Plain, Each, $2 75 11410 Gilt, Each, $3.85

Reproduction one-half size

## LA ROSE DESIGN

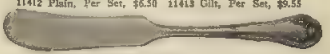
Reliance Plate must not be advertised or sold below the established re-sale prices. These prices may be obtained from us.

# RELIANCE PLATE

**HOLLOW HANDLE ORANGE KNIFE**
11411 Six in Lined Box. Per Set, $13.07

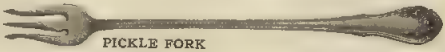
**INDIVIDUAL SALAD FORK**
Six in Lined Box
11412 Plain, Per Set, $6.50 11413 Gilt, Per Set, $9.55

**HOLLOW HANDLE FRUIT KNIFE**
11414 Six in Lined Box. Per Set, $12.17



**BUTTER SPREADER**
11415 Six in Lined Box. Plain, Per Set, $5.90

**SUGAR TONGS**
One in Lined Box
11416 Plain, Each, $2.09



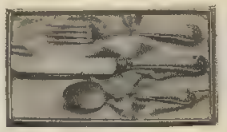
**PICKLE FORK**
One in Lined Box
11417 Plain, Each, $1.55 11418 Gilt, Each, $2.05

**SOLID HANDLE FRUIT KNIFE, EMB.**
11419 Six in Racked Box. Per Doz., $9.40

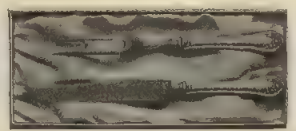
**ICED TEA SPOON**
11420 Twelve in Plain Box. Per Doz., $7.30

**HOLLOW HANDLE PIE SERVER**
11421 One in Lined Box. Each, $3.85

Reproduction one-half size.

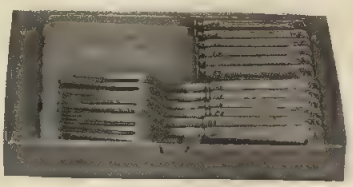


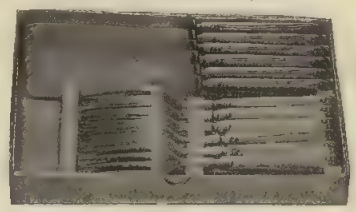
**THREE PIECE CHILD SET**
One Set in Lined Box
11422 Hollow Handle Knife, Per Set, $4.10
11423 Solid Handle Emb Knife, " " 2.93
11424 Flat Nickel Knife, " " 2.75



**SMALL CARVING SET**
One Set in Lined Box
11425 Per Set, $8.70

**BUTTER KNIFE AND SUGAR SHELL**
One Set in Lined Box
11426 Plain, Per Set, $1.77
11427 Gilt, Per Set, $2.20





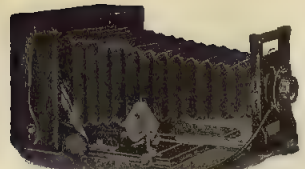
**12 pc. EMBOSSED KNIFE AND EMBOSSED FORK SETS**

11426 6 Each Emb. Med. Knives and 6 Emb. Med. Forks, Per Set...$11.27
11425½ 6 " " Dessert " " 6 " Dessert " " " 10.91
11429 6 Each Emb. Med. Knives (Spim. Swa.) and Emb. Forks, Per Set. $11.60
11429½ 6 " " Dessert " " " " " " " " 11.80

LA ROSE DESIGN

**Reliance Plate must not be advertised or sold below the established re-sale prices. These prices may be obtained from us.**

# SENECA CAMERA—List Prices.



**SENECA SPECIAL**
(Swing Back.)
**(A Moderate Priced, Long Focus Instrument.)**

The lens is the celebrated Seneca Convertible, of three foci, and there is sufficient length of bellows to use the back combination of the lens singly when desired, producing a variety of results. Either the Uno, Duo, (Dustproof) or Autic (Dustproof) Shutter may be fitted.

DETAIL OF EQUIPMENT

Dimensions—In the 5 x 7 size, 3¾x6½x2⅞ inches.
Focal Capacity—13¾ inches.
Camera Box—Ebony finish, corners dovetailed and covered with walrus grain leather.
Camera Bed—Solid mahogany, ebony finish, attached to Camera with improved nickel plated piano hinge.
Metal Parts—Brass, handsomely nickel plated.
Bellows—Black Russia leather, lined with gossamer cloth.
Clamp—Automatic finger grip.
Rack and Pinion—For fine focusing with locking device.
Front—Rising and falling.
Back—Spring actuated ground glass panel for focusing.
Swing—Back and bed.
Tripod Sockets—two. (One for bed of camera.
Lens—Seneca Convertible Three-focus F. 8.
Shutter—Seneca Uno Automatic, with bulb and tube, Duo or Autic.
View Finder—Brilliant, reversible, metal bound and hooded.
Camera. Seneca Improved Light Trap Double Plate Holder
Manual of Photography (Instruction Book.
Made in 5 x 7 size only.

PRICE OF OUTFIT COMPLETE

Camera fitted with Uno Shutter..... $42.00
Camera fitted with Duo Double Valve (Dustproof) Shutter ..... 32.85
Camera fitted with Autic Double Valve (Dustproof) Shutter ..... 40.00

**POCKET SENECA No. 32.**

Pocket Seneca Number 32, though a true pocket camera, is, nevertheless, ample in size for the purposes of serious pictorial work.

DETAIL OF EQUIPMENT.

Dimensions
In 3¼x4¼ size, 4¼x2½x5¾ inches.
In 4 x 5 size, 5¼x3½x6¾ inches.
Focal Capacity
In 3¼x4¼ size, 10 inches.
In 4 x 5 size, 13¼ inches.
Camera Box—Ebony finish, corners dovetailed and covered with walrus grain leather.
Camera Bed—Solid mahogany, ebony finish, attached to Camera with improved nickel plated piano hinge.
Metal Parts—Brass, handsomely nickel plated.
Bellows—Black Russia leather, lined with gossamer cloth
Front—Metallic reinforced, rising and falling.
Back—Improved spring ground glass panel for focusing. Removable.
Rack and Pinion—For fine focusing, locking device.
Swing Either back or bed.
View Finder—Brilliant, reversible, metal bound and hooded.
Shutter—Seneca Autic Automatic (Dustproof), with bulb and tube attachment.
Tripod Sockets—Three.
Lens—Triple Convertible, F 8.
Camera. Seneca Improved Light Trap Double Plate Holder
Manual of Photography. Instruction Book.

PRICE OF OUTFIT COMPLETE

In 3¼x4¼ size..... $45.85
In 4 x 5 size..... 50.50

**POCKET SENECA, No. 29**

This Pocket Camera is, of course, especially desirable for tourists and those pleasure seekers who wish a moderate priced pocket instrument. Made in 4 x 5 size only.

DETAIL OF EQUIPMENT

Dimensions—6¼x6¼x2¼ inches.
Focal Capacity—5⅝ inches.
Camera Box—Ebony finish, corners dovetailed and covered with walrus grain leatheret.
Camera Bed—Ebony finish, attached to Camera with improved nickel plated piano hinge.
Metal Parts—Brass, nickel plated, highly polished.
Bellows—Leatheret, gossamer lined.
Front—Metallic reinforced.
View Finder—Reversible. Ground glass.
Back—Ground glass panel for focusing.
Tripod Sockets—Two.
Shutter—Seneca Uno with bulb and tube attachment.
Lens—Single Achromatic or Rapid Rectilinear.
Camera. Seneca Light Trap Double Plate Holder
Manual of Photography. Instruction Book.

PRICE OF OUTFIT COMPLETE

| | Size 4 x 5 |
|---|---|
| Pocket Seneca, No. 29, fitted with single Achromatic Lens ..... | $18.27 |
| Pocket Seneca No. 29, fitted with Rapid Rectilinear Lens ..... | 21.60 |

**POCKET SENECA No. 2A.**

3¼x5½ size
**(A Post Card Camera.)**

This camera is particularly adapted for post card work, and there is an every day increasing demand for a 3¼x5½ size camera. The No. 2A Pocket Seneca is equipped with a Rapid Rectilinear Lens and choice of Uno, Duo or Autic Shutters.

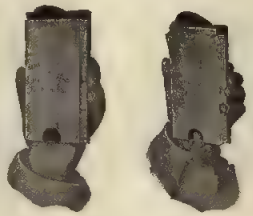
DETAIL OF EQUIPMENT

Made in 3¼x5½ size only.
Dimensions—6¼x4¼x2¾ inches.
Focal Capacity—3¼ inches.
Front—Metallic reinforced, rising and falling.
Back—Removable spring actuated. Ground glass panel for focusing
Back and Pinion—For fine focusing, with locking device.
Tripod Sockets—Two.
View Finder—Brilliant, reversible, metal bound and hooded.
Shutter—Seneca Uno with bulb and tube attachment, Duo or Autic.
Lens—Rapid Rectilinear
Bellows—Black Russia leather, gossamer lined.
Camera. Seneca Improved Light Trap Double Plate Holder
Manual of Photography. Instruction Book.

PRICE OF OUTFIT COMPLETE

Pocket Seneca No. 2A..... $33.10
Pocket Seneca No. 2A, fitted with Duo Double Valve (Dustproof) Shutter . 37.85
Pocket Seneca No. 2A, fitted with Autic Double Valve (Dustproof) Shutter.. 45.00

# The Seneca Adapter.



THE SENECA ADAPTER Unloaded FOR FILM PACKS Loaded, Ready for Use

Removing Pack from THE SENECA ADAPTER (bingeless)

Inserting Pack in THE SENECA ADAPTER (bingeless)

Front View of THE SENECA ADAPTER (bingeless) Showing Side. No Handles on Slide to Break Off.

For the photographers who want to use film in a plate camera—any kind of a plate camera—nothing ever invented equals the **Seneca Light Tight Adapter (bingeless) for Film Packs.**

The Seneca is daintily fashioned of aluminum and oak with a press board slide. It gives an added value to the film pack and increases the pleasure of picture taking very appreciably.

**No matter what make of camera you have, our new Adapter will fit it.**

If you have never used the film pack with your plate camera, truly it is time to start, for our new adapter opens the way to the perfect enjoyment of the film pack with any plate camera. The Seneca Adapter is interchangeable with the plate holders. Made of oak—polished, the back or container being of aluminum. There are no hinges to become loosened and perhaps spoil the film, it is light.

The film pack, after being inserted in the adapter is tightly held in position by two positive retaining clips, fastened to either side of the adapter. After the Film pack and Adapter are in position, the exposures are made exactly as if plates were being used.

Whenever it is necessary to remove the film pack from the camera for any purpose, this may be done by simply inserting the slide and removing the Adapter

It is desirable to develop the exposed films before the entire pack is exposed, this may be done by removing the pack in a dark room, taking out the exposed films, and reclosing the pack.

The use of the Seneca Adapter (bingeless) for Film Packs gives the added advantage of being able to use the ground glass for focusing purposes while using film for exposures. The slide having been inserted, the adapter may be removed from the camera and the ground glass placed in position. After the image has been sharply focused, the ground glass is removed and the Adapter replaced in the camera. The slide is then withdrawn and the film is ready for the exposures.

The Seneca Adapter (bingeless) for Film Packs may be used with Seneca and all other leading makes of plate cameras.

THE CROWNING FEATURES OF ITS EXCELLENCE ARE:

The case with which the Adapter is loaded and manipulated.

The light trap preventing fogging no matter at what angle the slide is introduced.

The peculiar construction of the slide which has no handle to crack or break off.

The position method of introducing and holding the film packs.

PRICES.

| Size | |
|---|---|
| 3¼x4¼ | $2.85 |
| 4 x 5 | 3.35 |
| 3¼x5½ (Post Card) | 3.35 |
| 5 x 7 | 5.35 |

# SENCO ROLL FILM CAMERAS

## PRICES LIST EACH.

**Designed only for spool or roll film, these dainty little instruments appeal altogether to the amateur or tourist. Senco roll film cameras are easy to load any time, anywhere, in daylight or dark. They carry six or twelve exposures, as the operator may desire; are compact, light, and possess an individuality and elegance of finish all their own. The faster lenses and faster films of today have made this style of camera immeasurably better in theory than it was a few years ago; and the Senco Roll Film Camera is made immeasurably better in reality than any instrument of this style that the market affords.**

Carrying Case for SENCO Cameras

### FOLDING POCKET SENCO No. 1

For Roll Film

Takes 2¼x3¼ Size Pictures

Although designed especially for the beginner, the Senco No. 1 is nevertheless an instrument of considerable range, capable of doing very satisfactory work, even in the hands of the novice. It is a compact, folding camera, easily carried in a pocket of any size, and entirely without confusing attachments. Made of aluminum and the covering is genuine seal grain leather

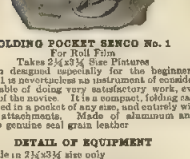
#### DETAIL OF EQUIPMENT

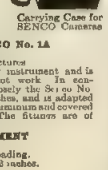
**Size**—Made in 2¼x3¼ size only
**Capacity**—12 exposures without reloading.
**Dimensions of Camera**—7x3½x1¾ inches.
**Weight**—16 ounces.
**Tripod Sockets**—Two.
**Focal Capacity**—4½ inches.
**Film Chamber**—Improved.
**View Finder**—Brilliant, reversible
**Shutter**—Uno Automatic or Autic Automatic (Dustproof)

Manual of Photography. Instruction Book

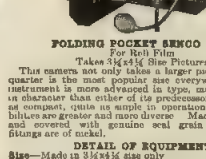
#### PRICE OF OUTFIT COMPLETE

| | |
|---|---|
| SENCO No. 1 with Meniscus Achromatic lens and No. 1 Uno Automatic Shutter. . . . . | $26.00 |
| SENCO No. 1 with Rapid Rectilinear Lens and No 2 Uno Automatic Shutter with bulb and tube | 30.55 |
| SENCO No. 1 with Rapid Symmetrical, Speed F 8, Lens and Autic Automatic (Dustproof) Shutter | 36.90 |
| SENCO No. 1 with Seneca Anastigmat Lens, Speed F. 6.8, and Autic (Dustproof) Shutter, speed 1-100 second . . . . . | 38.65 |
| Black sole leather carrying case with strap. . . . . | 3.50 |
| Film Cartridge, 12 exposures, 2¼x2¼ . . . . . | 1.15 |
| Film Cartridge, 6 exposures, 2¼x3¼ . . . . . | .87 |
| SENCO Portrait Attachment . . . . . | 1.50 |





Carrying Case for SENCO Cameras



### FOLDING POCKET SENCO No. 1A

For Roll Film

Takes 2½x4¼ Size Pictures

This is a thoroughly satisfactory instrument and is strongly recommended for snap-shot work. In construction and operation it follows closely the Senco No 1, but it takes a picture 2½x4¼ inches, and is adapted for a good range of work. Made of aluminum and covered with genuine seal grain leather. The fittings are of nickel and it is handsomely finished.

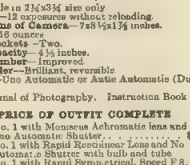
#### DETAIL OF EQUIPMENT

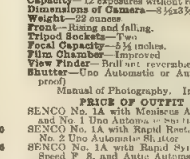
**Size**—Made in 2½x4¼ size only.
**Capacity**—12 exposures without reloading.
**Dimensions of Camera**—8½x3⅝x2 inches.
**Weight**—22 ounces
**Front**—Rising and falling.
**Tripod Sockets**—Two.
**Focal Capacity**—5½ inches.
**Film Chamber**—Improved
**View Finder**—Brilliant reversible
**Shutter**—Uno Automatic or Autic Automatic (Dustproof)

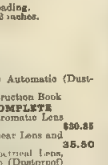
Manual of Photography. Instruction Book

#### PRICE OF OUTFIT COMPLETE

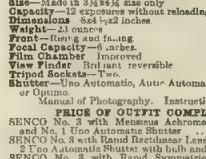
| | |
|---|---|
| SENCO No. 1A with Meniscus Achromatic Lens and No. 1 Uno Automatic Shutter | $30.85 |
| SENCO No. 1A with Rapid Rectilinear Lens and No. 2 Uno Automatic Shutter | 35.50 |
| SENCO No. 1A with Rapid Symmetrical Lens, Speed F 8, and Autic Automatic (Dustproof) Shutter | 47.35 |
| SENCO No. 1A with Seneca Anastigmat Lens, Speed F. 6.8, and Optimo Shutter, Speed 1-300 second . . . . . | 106.45 |
| Black sole leather carrying case with strap. . | 3.50 |
| Film Cartridge, 12 exposures 2½x4¼. . . . . | 1.45 |
| Film Cartridge, 6 exposures 2¼x4¼. . . . . | .75 |
| SENCO Portrait Attachment . . . . . | 1.50 |







Carrying Case for SENCO Cameras



### FOLDING POCKET SENCO No. 2

For Roll Film

Takes 3¼x4¼ Size Pictures

This camera not only takes a larger picture—and the quarter is the most popular size everywhere—but the instrument is more advanced in type, more pretentious in character than either of its predecessors. It is quite as compact, quite as simple in operation and its capabilities are greater and more diverse. Made of aluminum and covered with genuine seal grain leather. The fittings are of nickel.

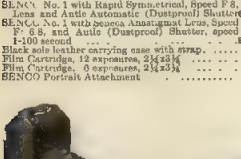
#### DETAIL OF EQUIPMENT

**Size**—Made in 3¼x4¼ size only
**Capacity**—12 exposures without reloading
**Dimensions**—8¾x5x2 inches
**Weight**—21 ounces
**Front**—Rising and falling.
**Focal Capacity**—6 inches.
**Film Chamber**—Improved
**View Finder**—Brilliant reversible
**Tripod Sockets**—Two.
**Shutter**—Uno Automatic, Autic Automatic (Dustproof) or Optimo.

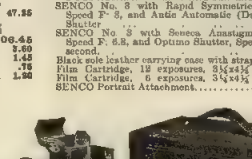
Manual of Photography. Instruction Book.

#### PRICE OF OUTFIT COMPLETE

| | |
|---|---|
| SENCO No. 3 with Meniscus Achromatic Lens and No. 1 Uno Automatic Shutter . . . . . | $26.65 |
| SENCO No. 3 with Rapid Rectilinear Lens and No. 2 Uno Automatic Shutter with bulb and tube | 42.75 |
| SENCO No. 3 with Rapid Symmetrical Lens, Speed F. 8, and Autic Automatic (Dustproof) Shutter . . . . . | 54.55 |
| SENCO No. 3 with Seneca Anastigmat Lens Speed F. 6.8, and Optimo Shutter, Speed 1-300 second. . . . . | 111.15 |
| Black sole leather carrying case with strap. . . . . | 2.60 |
| Film Cartridge, 12 exposures, 3¼x4¼ . . . . . | 2.00 |
| Film Cartridge, 6 exposures, 3¼x4¼ . . . . . | 1.00 |
| SENCO Portrait Attachment. . . . . | 1.20 |



Back of SENCO Camera Showing Improved Film Chambers



Back of SENCO Camera Showing Improved Film Chambers

### FOLDING POCKET SENCO No. 2A

For Roll Film

Takes 3¼x5½ (Post Card) Size Pictures

The same as Senco No. 3 except in size, this camera may be used for profit as well as pleasure. Everyone knows the extent to which post card photography has become popular, and this is the post card size of instrument. It gives correctly proportioned and most harmonious results. Made of aluminum and covered with genuine seal grain leather

#### DETAIL OF EQUIPMENT

**Size**—Made in 3¼x5½ size only
**Capacity**—12 exposures without reloading.
**Dimensions**—9½x4⅝x2 inches.
**Weight**—28 ounces
**Front**—Rising and falling
**Focal Capacity**—7 inches
**Film Chamber**—Improved.
**View Finder**—Brilliant, reversible
**Tripod Sockets**—Two.
**Shutter**—Uno Automatic, Autic Automatic (Dustproof) or Optimo.

Manual of Photography. Instruction Book.

#### PRICE OF OUTFIT COMPLETE

| | |
|---|---|
| SENCO No. 3A with Meniscus Achromatic Lens and No 1 Uno Automatic Shutter. . . . . | $44.25 |
| SENCO No. 3A with Rapid Rectilinear Lens and No. 2 Uno Automatic Shutter with bulb and tube | 51.00 |
| SENCO No. 3A with Rapid Symmetrical Lens, Speed F 8, and Autic Automatic (Dustproof) Shutter | |
| SENCO No 3A with Seneca Anastigmat Lens, Speed F 6.8, and Optimo Shutter, Speed 1-300 second . . . . . | 118.35 |
| Black sole leather carrying case with strap. . . . . | 4.15 |
| Film Cartridge, 10 exposures, 3¼x5½ . . . . . | 2.00 |
| Film Cartridge, 6 exposures, 3¼x5½ . . . . . | 1.15 |
| SENCO Portrait Attachment. . . . . | 1.20 |

### SPECIAL FOLDING POCKET SENCO

For Roll Film

Rack and Pinion

The special Senco is made in four sizes, for pictures 2¼x3¼, 2½x4¼, 3¼x4¼, and 3¼x5½ (post card size). In appearance, design, material and general detail, this special camera resembles the other Senco models. Equipped with rack and pinion makes correct focusing a convenience. A handsome sole leather carrying case is included in the outfit.

The prices given below are for the outfit complete, including the camera, sole leather carrying case with shoulder strap for same. A Manual of Photography and Instruction book is included with each outfit.

#### PRICE

SPECIAL SENCO with **Seneca** Extra Rapid Anastigmat Lens, Speed F. 6.3, and Optimo Shutter Speed 1 300 second

| | |
|---|---|
| 2¼x3¼ size . . . . . | $ 99.85 |
| 2½x4¼ size . . . . . | 123.00 |
| 3¼x4¼ size . . . . . | 136.10 |
| 3¼x5½ size (post card) . . . . . | 141.85 |

SPECIAL SENCO with Goerz Lens, Speed T 8.8, and Compound Shutter, Speed 1-250 second

| | |
|---|---|
| 2½x3¼ size . . . . . | $133.65 |
| 3¼x4¼ size. . . . . | 166.80 |
| 3¼x5½ size (post card). . . . . | 208.35 |

Film Cartridge, 6 exposures.

| | |
|---|---|
| 2¼x3¼ size . . . . . | .87 |
| 2¼x4¼ size . . . . . | .70 |
| 3¼x4¼ size . . . . . | 1.00 |
| 3¼x5½ size (post card) . . . . . | 1.13 |

Film Cartridge, 12 exposures.

| | |
|---|---|
| 2½x3¼ size . . . . . | 1.13 |
| 2½x4¼ size . . . . . | 1.40 |
| 3¼x4¼ size . . . . . | 2.00 |
| 3¼x5½ size (post card) 10 exposures . . | 2.00 |

### No. 2 AND 2A SCOUT CAMERAS

Fixed Focus for Roll Film

The Latest Roll Film Box Camera Made

This style of camera is constructed of wood and metal, covered with seal grain leatherette, no cardboard whatever being used. They are simple of operation and have features not possessed by any other style of roll film camera in the box design. The method of loading is very simple there is but one draw catch for holding the film chamber, this catch being released, the operator is enabled to draw the film chamber from the side of the camera itself and after being loaded it is easily and quickly put in place and locked. The winding key is of an improved type, noiseless and folding. The SCOUT Cameras are a fixed focus type and are especially desirable not only for children but other beginners as well. These cameras possess two view finders for horizontal and vertical pictures, and an automatic time and instantaneous shutter. The No. 2 SCOUT takes pictures 2¼x2¼ inches, and the No. 2A takes pictures 2½x4¼ inches

#### SPECIFICATIONS

**Dimensions**—No. 2, 3¼x2¼x5¼ inch; No. 2A, 3¼x5¼x6
**Weight**—No. 2, 12 ounces; No. 2A, 16 ounces. Actual weight.
**Capacity**—No. 2, six exposures without reloading; No. 2A, twelve exposures without reloading
**Lens**—Fixed focus Meniscus first grade
**Shutter**—Automatic for time or instantaneous exposures.
**View Finders**—Two for horizontal or vertical pictures.
**Winding Key**—Noiseless and folding
**Diaphragm**—Two different openings
**Film Chambers**—Improved

| | No. 2 | No. 2A |
|---|---|---|
| Scout Camera. . . . . | $4.75 | $7.10 |
| Carrying Case . . . . . | 1.75 | 1.75 |
| Portrait Attachment . . . . . | 1.20 | 1.35 |
| Vulcan Film Cartridge, 6 exposures | .87 | .75 |

Note—The No. 2 SCOUT takes Brownie Film, No. 2A SCOUT takes regular 1A Film

# AUTOMOBILE TOOL KITS

## ★DIAMOND EDGE

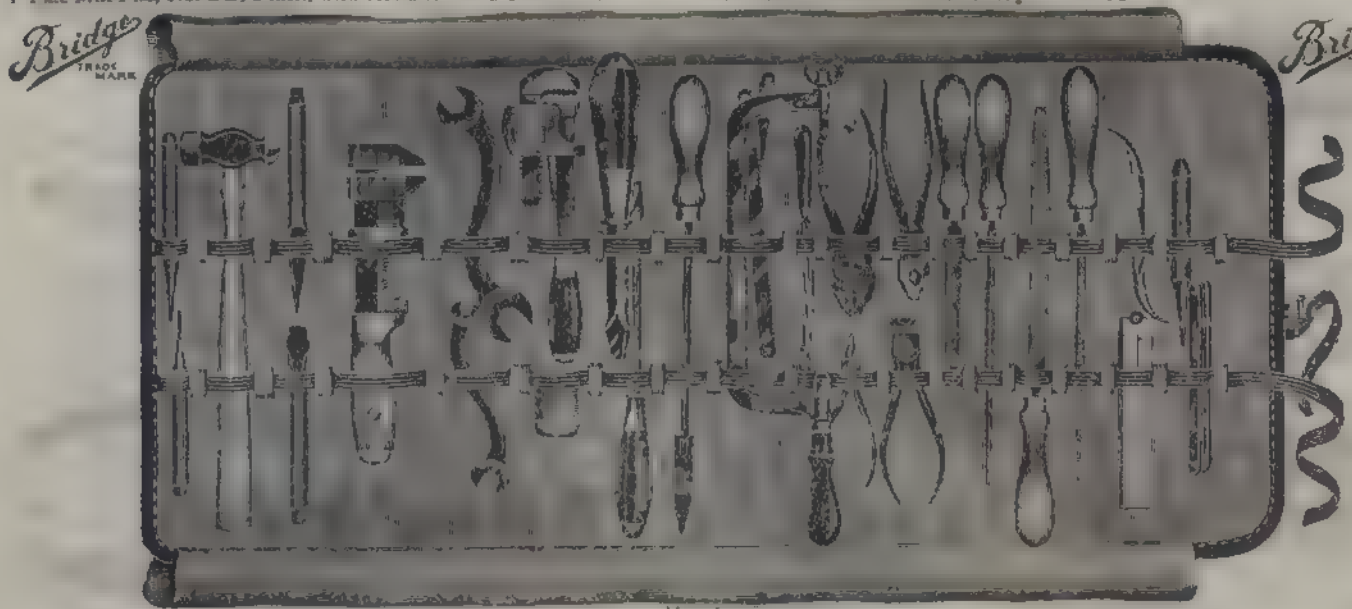
Each

**No. DE85**—Contains 31 Highest Grade Tools, with Other Necessary Articles as Listed Below, in 16x45 inch Canvas Roll; Wt. 18 lbs . . **$22 00**

*DIAMOND EDGE* Tools
- 1 N. P. Ball Pein Hammer No. DBN2/0.
- 1 Awl and Tools No. DE57.
- 1 Side Cut Pliers, 7 inch, No. DE35.
- 1 Flat Nose Pliers, 5 inch, No. DE10.
- 1 Hack Saw No. DE125.
- 1 Hack Saw Blade No. DER, 10 inch.
- 1 Screw Driver No. DEM4½.
- 1 Screw Driver No. DE6.
- 1 Machine N. P. Wrench No. DEN10.
- 1 Machine N. P. Wrench No. DEN20.
- 1 Flat Mill File, No. DE, 8 inch, with Handle.

*DIAMOND EDGE* Tools
- 1 Half round File, No. DE, 8 inch, with Handle.
- 1 Square File, No. DE, 8 inch, with Handle.
- 1 Round File, No. DE, 8 inch, with Handle.
- 1 Warding File No. DE, 5 inch, with Handle.
- 1 Cold Chisel No. DEP½.
- 1 Cold Chisel No. DEP¾.
- 1 Machine Punch No. DE1.
- 1 Machine Punch No. DE3.
- 1 Machine Punch No. DE5.
- 1 Knife Handle Wrench No. DEK10, 10 inch.
- 1 Polished Center Punch No. DEC.

- 2 Sheets *DIAMOND EDGE* Emery Paper No. DE½.
- 2 Sheets *DIAMOND EDGE* Sandpaper No. DE1.
- 1 Stillson Pipe Wrench, 10 inch.
- 1 Boxwood Rule No. 62.
- 2 Soldering Sticks.
- 1 ¼ pound Spool Copper Wire No. 18.
- 1 Soldering Copper, 1 pound, Handled.
- 1 Cotter Pin Extractor No. 237.
- 1 Cotter Pin Extractor No. 236
- 1 Set (3) Journal Scrapers No. 1202
- 1 Box (100) Assorted Spring Cotters.
- 1 Cape Chisel ¾ inch.



## ★BRIDGE

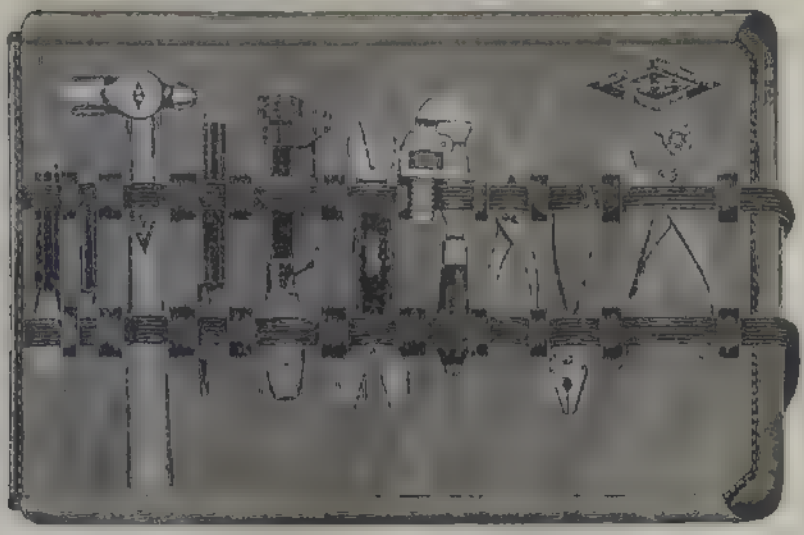
Each

**No. B85**—Contains 27 High Grade Tools with Other Necessary Articles as Listed Below in 16x36 inch Canvas Roll, Wt. 15 lbs **$16 00**

- 1 Bridge Machinists' Ball Pein Hammer No. BB2/0.
- 1 Bridge Side Cutting Plier No. B35, 7 inch.
- 1 Bridge Flat Nose Plier No. B10, 5 inch.
- 1 Bridge Combination Plier No. BN6.
- 1 Bridge Hack Saw Frame No. B10.
- 1 Bridge End Cutting Nippers No. B20, 6 inch.
- 1 Bridge Screw Driver No. BR6.
- 1 Bridge Flat Mill File, 8 inch, with Handle.
- 1 Bridge Square File, 8 inch, with Handle.
- 1 Bridge Round File, 8 inch, with Handle.
- 1 Bridge Warding File, 5 inch, with Handle.
- 1 Bridge Cold Chisel No. B, ¾ inch.
- 1 Bridge Drive Punch No. B1.
- 1 Bridge Drive Punch No. B3.
- 1 Bridge Center Punch No. B7.
- 1 *DIAMOND EDGE* Knife Handle Wrench No. DEK10, 10 inch.
- 1 *DIAMOND EDGE* Screw Driver No. DEM4½.
- 2 Sheets *DIAMOND EDGE* Emery Paper No. ½.
- 2 Sheets *DIAMOND EDGE* Sandpaper No. 1.
- 2 Bridge Hack Saw Blades No. BR, 8 inch.

- 1 Stillson Pipe Wrench, 10 inch.
- 1 Wrench, Machinists' No. D100.
- 1 Wrench, Machinists' No. D102.
- 1 Boxwood Rule No. 68.
- 1 Cotter Pin Extractor No. 237.
- 1 Cape Chisel, ¾ inch.
- 1 Journal Scraper, No. 1020.
- 1 Soldering Copper, 1 pound, with Handle.
- 2 Soldering Sticks.
- 1 Spool ¼ pound Copper Wire No. 18.
- 1 Box (100) Assorted Spring Cotters.

# AUTOMOBILE TOOL KITS



## * DIAMOND EDGE IN CANVAS ROLLS

**Contains the Following Tools:**

1 DIAMOND EDGE Monkey Wrench, No. DEK10, 10 inch.
1 DIAMOND EDGE Pipe Wrench, No. DEX10, 10 inch.
1 DIAMOND EDGE Twin Wrench, No. DET, 10 inch.
1 DIAMOND EDGE Cold Chisel, No. DE, ⅜ inch.
1 DIAMOND EDGE Machine Punch, No. DE3M.
1 DIAMOND EDGE Hollow Punch, No. DE108, Size 8.
1 DIAMOND EDGE Revolving Spring Punch, No. DE4.
1 DIAMOND EDGE Combination Plier, No. DEC6, 6 inch
1 DIAMOND EDGE Combination Plier, No. DE108.
1 DIAMOND EDGE Machinists' Ball Pein Hammer, No. DB1.

Weight per Set 10 lbs

Each

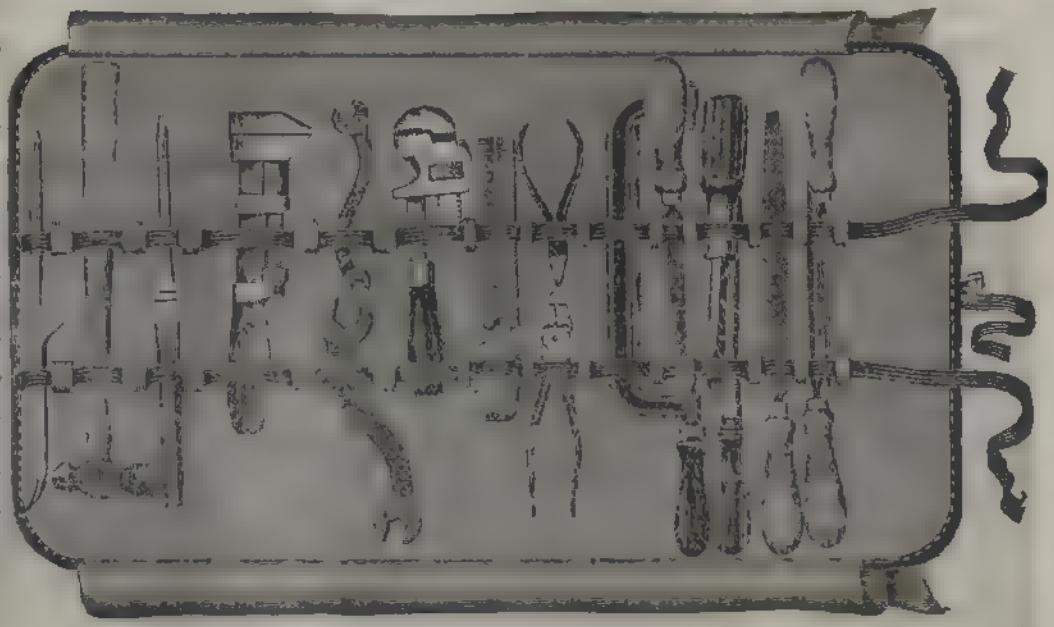
No. DE333 ..... $8 00

One Set in Canvas Roll

STANDARD

**Contents of Roll**

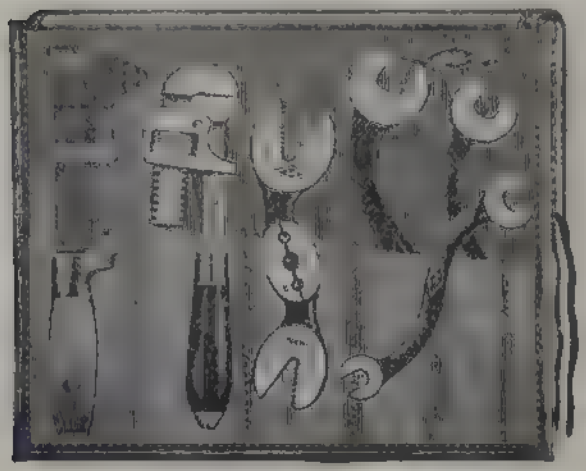
1 Bridge Screw Driver, No. BR6.
1 DIAMOND EDGE Screw Driver, No. DEM4½.
1 Machinists' Wrench, No. D100.
1 Machinists' Wrench, No. D102.
1 DIAMOND EDGE Monkey Wrench, No. DEK10, 10 inch.
1 Stillson Pipe Wrench, 10 inch.
1 Bridge Mill File, 8 in., with Handle
1 Bridge Square File, 8 in., with Handle
1 Bridge Round File, 8 in., with Handle.
1 Bridge Warding File, 5 inch, with Handle.
1 Bridge Machinists' Ball Pein Hammer, No. BB2, 6.
1 Bridge Cold Chisel, No. B, ½ inch.
1 Bridge Cold Chisel, No. B, ¾ inch.
1 Bridge Center Punch, No. BC.
2 Sheets DIAMOND EDGE Emery Paper, No.
2 Sheets DIAMOND EDGE Sandpaper, No.
1 Boxwood Rule, No. 68.
1 Spool ¼ pound Copper Wire, No. 18.
1 No. B8 Bridge Hack Saw Frame.
1 Bridge Hack Saw Blade, No. BR, 8 in.
1 Cotter Pin Extractor, No. 237.
1 Bridge Flat Nose Pliers, 5 in., No. B10.
1 Bridge Side-cutting Pliers, No. B35, 5 inch.
1 Bridge Drive Punch, No. B1.
1 Bridge Drive Punch, No. B3.



Each

No. 85 Contains 22 High Grade Tools with Other Necessary Articles, in 17x7 inch Canvas Roll; Weight 7 lbs ..... $12 00

One Set in a Canvas Roll



## WRENCH SETS

### * DIAMOND EDGE

Canvas Roll has Separate Compartments for Each Tool; Edges are Securely Sewed; Flap Folds over at One End; Secured with Black Tape at Center.

Per Set

**No. DEX285 –Set Contains 6 Wrenches;** One Each Nos. DE15, DE20, DE25 "S" Wrenches; One No. DE100 Combination Nut and Pipe Wrench; One No. DEX10 Pipe Wrench; One No. DEK10 Monkey Wrench; Weight per Set 6¼ lbs..... $3.60

One Set in a Roll

*DIAMOND EDGE IS A QUALITY PLEDGE*

# TOURIST AND FIELD GLASSES.

## Prices Each.

No. 2100

TO THE TRADE.

We are direct importers of all Field and Opera Glasses. Importing direct, enables us to save you a fair margin. A careful consideration of our prices will convince you that they are the lowest. We can furnish any article listed by other houses that we do not quote in our catalogue at the same price, and in some instances lower. A trial order will convince you.

No. 2201

### Lemaire.

"Lemaire's" field glasses, morocco covered, metal body, bright finish, sole leather cases and straps. Four sizes, as follows:

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 2100 | 19 lignes. | Length closed, 4½ inches; extended, 6 inches; power, 5 diameters | | | | | | | | | | | | $33.25 |
| No. 2100 | 21 | " | " | 5½ | " | " | 6¼ | " | " | 5¼ | " | | | 36.15 |
| No. 2100 | 24 | " | " | 5½ | " | " | 7 | " | " | 6 | " | | | 42.15 |
| No. 2100 | 26 | " | " | 6¼ | " | " | 7½ | " | " | 6¾ | " | | | 48.75 |
| No. 2200S | 24 | " | Same as No. 2100 but with 12 lenses; power, 6 diameters | | | | | | | | | | | 56.65 |

### Chevalier.

| | | 21 Lignes. | 24 Lignes. | 26 Lignes. |
|---|---|---|---|---|
| No. 2200 | Black morocco leather covered, black trimmings, sole leather carrying case, achromatic lenses. Best on the market for the money... each, | $13 30 | $14.15 | $15.95 |

### Colmont.

| | | | | |
|---|---|---|---|---|
| No. 2201 | "Colmont," same description as above, but much better grade glass ..... each, | 23.35 | 24.65 | 26.50 |

No. 2866

No. 2500 **COLMONT TOURIST.** We take pleasure in calling the attention of our customers to a new field glass that we now carry in stock. The glass combines compactness and smallness with large field of vision and great power. It is adjustable for different pupilary widths as shown in the upper cut. It is excellent for field work and is perfect bird glass.
Each ..... $30.20

No. 112

### CAVALRY GLASSES—Rapid Adjustment.

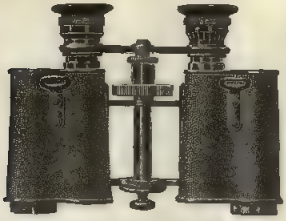
The following line of field glasses are constructed with short bodies and long draw tubes, so that while capable of being extended long enough to give the necessary power, they occupy, when closed, a comparatively small compass. They are fitted with a patent adjustment, by means of which they can be always kept at the proper adjustment for the owner's eyes. Having been once adjusted by the screw, as in any ordinary field glass, they can then be closed by simply pushing them together and when needed have only to be pulled out when they are ready for instant use, the adjustment to the eyes having remained undisturbed.

| | | | | |
|---|---|---|---|---|
| No. 2866 | "Jena" patent adjustment, sun shades, case and strap. 15 Lignes. Length, closed, 5 inches; extended, 7 inches; power 6 diameters, High Power Mountain Glass ..... each, | $40.75 | | |
| No. 112 | Marchand Field glass, Day and Night, U. S. Signal, black morocco body, japanned trimmings, extension sun shade, black leather carrying case and strap ..... each, | 21L $16.00 | 21L $17.70 | |

# PRISM BINOCULARS

**More Powerful than the Best Field Glass**

## Bausch & Lomb-Zeiss Stereo Binoculars



THE BEST PRODUCTIONS OF EUROPEAN MAKERS

### B. & L.-Zeiss 8-Power Stereo

The best selling Binocular. A compact glass less than half the size of ordinary field glass. Aluminum body, dust proof, covered with the finest leather obtainable. Adjustable to various pupillary distances with focusing attachment. Magnification, 21 diameters.....each **$ 90.00**
12-Power, magnification, 30 diameters..... ..... **208.35**

## The "MEGAPHOS" Binocular

**A Prism Binocular at Moderate Price**
**(Magnification, 8 Diameters)**

Aluminum body, covered with morocco leather. Adjustable pupillary distances
8-Power ..... each **$70.35**

## Busch Stereo Ultra-Lux

**Smallest Size on Market**

The lenses of a Stereo-Binocular being placed further apart than the eyes, all objects are brought into higher relief, and their actual distances, in relation to one another, are made more evident to the observer. The Stereo Ultra-Lux has therefore its practical value to the hunter, the yachtsman and the architect as well as to the tourist. Moisture and dust-proof.
8-Power ..... each **$123.35**

## The Busch Prism Binocular

The Busch Glass is better known in foreign countries than in this. The best known continental touring agencies recommend it as one of the finest glasses for viewing the grandeur of mountain scenery. We show only the best sellers.
8-Power ..... each **$118.50**
12-Power ..... each **122.35**

## Colmont Stereo Prism Binocular

Bodies of aluminum, Japanned, and covered with black seal grain leather. Furnished in a sole leather case, hand sewed and velvet lined, provided with an improved spring catch, enabling case to be opened or closed with one hand. In addition to the outside carrying strap there is also an adjustable shoulder strap attached to the glass itself as shown in illustration.
8-Power ..... each **$73.35**

## Busch Army and Navy U. S. Model 10-Power Prism Binocular Terlux

Aside from powerful requirements on land this glass is particularly desirable to students of astronomy.
10-Power, aluminum body, leather covered glass.....each **$211.10**

## Write for Prices on Telescopic Gun Sights

# COMPONENT PARTS

## COLT REVOLVERS

PRICES QUOTED ON THIS PAGE ARE MANUFACTURERS' LIST PRICES. WRITE US FOR NET PRICES

### SINGLE ACTION ARMY

| No. | Part | Each | No. | Part | Each |
|---|---|---|---|---|---|
| 1 | Hammer | $0.85 | 21 | Back strap screw (2) | $0 05 |
| 2 | Trigger | .22 | | Front strap screw | .05 |
| 3 | Hand and hand spring | .27 | 22 | Gate catch | 02 |
| | Hand spring | .03 | 23 | Gate catch screw | 05 |
| 4 | Gate | 1.00 | 24 | Sear and bolt spring screw | 05 |
| 5 | Ejector tube | 1.50 | 25 | Stock screw | 05 |
| 6 | Ejector rod | 27 | 26 | Hammer screw | 07 |
| 7 | Ejector head | 50 | 27 | Trigger and bolt screw | 05 |
| 8 | Ejector spring | .12 | 28 | Main spring screw | 05 |
| 9 | Sear and bolt spring | 08 | | Lock frame | 6 00 |
| 10 | Bolt | 28 | | Barrel | 3 00 |
| 11 | Base pin | 42 | | Barrel sight | 25 |
| 12 | Base pin bushing | .40 | | Barrel stud | 10 |
| 13 | Main spring | .36 | | Cylinder | 3 00 |
| 14 | Gate spring | .03 | | Firing pin | 10 |
| 15 | Base pin catch | .05 | | Trigger guard | 1 65 |
| 16 | Base pin catch spring | .02 | | Back strap | 1 25 |
| 17 | Base pin catch screw | .05 | | Stocks, per pair | 75 |
| 18 | Front guard screw | .05 | | Escutcheons, per set | 05 |
| 19 | Rear guard screw (2) | .05 | | Recoil plate | 05 |
| 20 | Ejector Tube screw | .05 | | Firing pin rivet | 05 |

### BISLEY MODEL

The following parts are different from the corresponding parts in the Single Action Army:

| Part | Each | Part | Each |
|---|---|---|---|
| Hammer | $1.00 | Hand spring | $0 05 |
| Hammer stirrup | .25 | Stocks, per pair | 75 |
| Trigger | .40 | Lock frame | 6 00 |
| Main spring | .50 | Trigger guard | 1 65 |
| Hand and hand spring | 30 | Back strap | 1 25 |

### NEW SERVICE AND NEW SERVICE TARGET

| No. | Part | Each | No. | Part | Each |
|---|---|---|---|---|---|
| 1 | Hammer, complete | $2.00 | 23 | Ejector and ratchet | $0 85 |
| 2 | Hammer pin | .05 | 24 | Ejector rod | 45 |
| 3 | Hammer stirrup | .20 | 25 | Ejector rod head | 15 |
| 4 | Hammer stirrup pin | .03 | 26 | Ejector spring | 10 |
| 5 | Safety | .25 | 27 | Bolt | 50 |
| 6 | Safety lever | .10 | 28 | Bolt spring | 05 |
| 7 | Strut | .25 | 29 | Bolt screw | 10 |
| 8 | Strut spring | .06 | 30 | Rebound lever | .85 |
| 9 | Strut pin | 03 | 31 | Rebound lever pin | .04 |
| 10 | Firing pin | .15 | 32 | Stock pin | 02 |
| 11 | Firing pin rivet | .02 | 33 | Stock screw | 05 |
| 12 | Hand | .50 | 34 | Side plate screw | 05 |
| 13 | Main spring | .70 | | Cylinder, complete | 3.50 |
| 14 | Crane | 3.00 | | Barrel | 3.00 |
| 15 | Crane bushing | .10 | | Stocks, per pair | .75 |
| 16 | Crane lock | .25 | | Escutcheon, per set | .05 |
| 17 | Crane lock screw | .07 | | Recoil plate | .05 |
| 18 | Latch | 1.00 | | Swivel, complete | .19 |
| 19 | Latch spring | .02 | | Swivel pin | .03 |
| 20 | Latch pin | .15 | | Frame, complete | 8 00 |
| 21 | Trigger | .75 | | Side plate | 1 30 |
| 22 | Trigger pin | 04 | | | |

### POCKET POSITIVE AND POLICE POSITIVE, .32 CALIBER

| No. | Part | Each | No. | Part | Each |
|---|---|---|---|---|---|
| 1 | Hammer, complete | $1.70 | 22 | Trigger pin | $0 03 |
| 2 | Hammer pin | .03 | 23 | Ejector and ratchet | 75 |
| 3 | Hammer stirrup | .20 | 24 | Ejector rod | 25 |
| 4 | Hammer stirrup pin | .03 | 25 | Ejector rod head | 15 |
| 5 | Safety | .25 | 26 | Ejector spring | .10 |
| 6 | Safety lever | .10 | 27 | Bolt | 50 |
| 7 | Strut | .25 | | Bolt spring | 03 |
| 8 | Strut spring | .06 | 28 | Bolt screw | 05 |
| 9 | Strut pin | .03 | 29 | Rebound lever | 75 |
| 10 | Firing pin | .15 | 30 | Rebound lever pin | 03 |
| 11 | Firing pin rivet | .02 | 31 | Stock pin | 02 |
| 12 | Hand | .40 | 32 | Stock screw | 05 |
| 13 | Main spring | .50 | 33 | Side plate screw | 05 |
| 14 | Crane | 2.25 | | Frame and side plate | 6 70 |
| 15 | Crane bushing | .10 | | Side plate | 80 |
| 16 | Crane lock | .25 | | Cylinder | 3 10 |
| 17 | Crane lock screw | 07 | | Barrel, 2½ or 3¼-in | 1 70 |
| 18 | Latch | .75 | | Barrel, 4, 5 or 6-in | 2 00 |
| 19 | Latch spring | .02 | | Recoil plate | 05 |
| 20 | Latch pin | .15 | | Stocks, per pair | 75 |
| 21 | Trigger | .60 | | Escutcheons, per set | .05 |

**NOTE**—When ordering parts for firearms always state plainly the names and numbers of the parts desired, and the make, caliber and number of the arm for which they are intended

# COMPONENT PARTS

## COLT REVOLVERS AND AUTOMATIC PISTOL

PRICES QUOTED ON THIS PAGE ARE MANUFACTURERS' LIST PRICES. WRITE US FOR NET PRICES.

### ARMY SPECIAL AND OFFICERS' MODEL

New Style

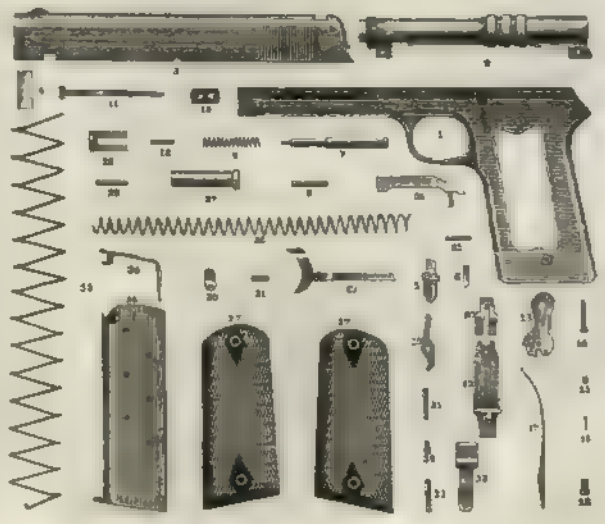
| No | Part | Each |
|---|---|---|
| 1 | Hammer complete | $ 1.80 |
| 2 | Hammer pin | .05 |
| 3 | Hammer stirrup | .20 |
| 4 | Hammer stirrup pin | .03 |
| 5 | Safety | .35 |
| 6 | Safety lever | .10 |
| 7 | Strut | .25 |
| 8 | Strut spring | .06 |
| 9 | Strut pin | .03 |
| 10 | Firing pin | .15 |
| 11 | Firing pin rivet | .02 |
| 12 | Hand | 50 |
| 13 | Mainspring | .60 |
| 14 | Crane | 2.50 |
| 15 | Crane bushing | 10 |
| 16 | Crane lock | 25 |
| 17 | Crane lock screw | 07 |
| 18 | Latch | 80 |
| 19 | Latch spring | 02 |
| 20 | Latch pin | .15 |
| 21 | Trigger | .75 |
| 22 | Trigger pin | $ 0.04 |
| 23 | Ejector and ratchet | .80 |
| 24 | Ejector rod | .35 |
| 25 | Ejector rod head | .15 |
| 26 | Ejector spring | .10 |
| 27 | Bolt | .50 |
| 28 | Bolt spring | .06 |
| 29 | Bolt screw | .05 |
| 30 | Rebound lever | .80 |
| 31 | Rebound lever pin | .04 |
| 32 | Stock pin | .03 |
| 33 | Stock screw | .06 |
| 34 | Side plate screw | .05 |
| | Frame, complete | 8.00 |
| | Side plate | 1 00 |
| | Cylinder, complete | 3 50 |
| | Barrel | 2 50 |
| | Stocks per pair | .75 |
| | Escutcheons, per set | .05 |
| | Recoil plate | .05 |

### POLICE POSITIVE AND POLICE POSITIVE SPECIAL, .38 CALIBER

| No. | Part | Each |
|---|---|---|
| 1 | Hammer, complete | $ 1.70 |
| 2 | Hammer pin | 03 |
| 3 | Hammer stirrup | .20 |
| 4 | Hammer stirrup pin | 02 |
| 5 | Safety | .35 |
| 6 | Safety lever | .10 |
| 7 | Strut | .25 |
| 8 | Strut spring | .06 |
| 9 | Strut pin | .03 |
| 10 | Firing pin | .15 |
| 11 | Firing pin rivet | .02 |
| 12 | Hand | .40 |
| 13 | Mainspring | .50 |
| 14 | Crane | 2.35 |
| 15 | Crane bushing | .10 |
| 16 | Crane lock | .25 |
| 17 | Crane lock screw | .07 |
| 18 | Latch | .75 |
| 19 | Latch spring | .02 |
| 20 | Latch pin | .15 |
| 21 | Trigger | .65 |
| 22 | Trigger pin | $ 0.03 |
| 23 | Ejector and ratchet | 80 |
| 24 | Ejector rod | .27 |
| 25 | Ejector rod head | .16 |
| 26 | Ejector spring | .10 |
| 27 | Bolt | .50 |
| | Bolt spring | .03 |
| 28 | Bolt screw | .05 |
| 29 | Rebound lever | .75 |
| 30 | Rebound lever pin | .03 |
| 31 | Stock pin | .02 |
| 32 | Stock screw | .05 |
| 33 | Side plate screw | .05 |
| | Frame and side plate | 6.50 |
| | Side plate | .80 |
| | Cylinder | 3.25 |
| | Barrel | 2.00 |
| | Recoil plate | .05 |
| | Stocks, per pair | .75 |
| | Escutcheons, per set | .05 |

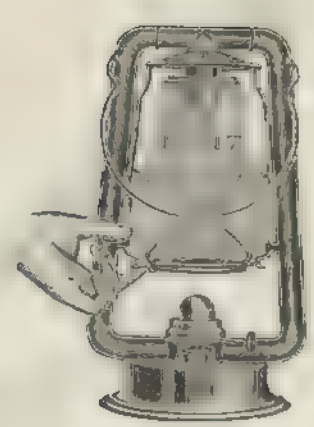
### MODEL 1911 AUTOMATIC U. S. GOVERNMENT PISTOL

| No. | Part | Each |
|---|---|---|
| 1 | Receiver. | |
| 2 | Barrel. | |
| 3 | Slide. | |
| 4 | Slide stop plunger tube. | |
| 5 | Slide stop plunger. | |
| 6 | Slide stop and lock spring. | |
| 7 | Slide lock plunger. | |
| 8 | Slide stop and link pin. | |
| 9 | Rear sight. | |
| | Front sight. | |
| 10 | Barrel link. | |
| 11 | Barrel link pin. | |
| 12 | Barrel lock. | |
| 13 | Retractor spring. | |
| 14 | Retractor spring follower. | |
| 15 | Take down plug. | |
| 16 | Extractor. | |
| 17 | Ejector. | |
| 18 | Ejector lock pin. | |
| 19 | Firing pin. | |
| 20 | Firing pin spring. | |
| 21 | Firing pin stop. | |
| 22 | Hammer. | |
| 23 | Hammer pin. | |
| 24 | Hammer strut. | |
| 25 | Hammer strut pin. | |
| 26 | Mainspring. | |
| 27 | Mainspring follower. | |
| 28 | Mainspring stop pin | |
| 29 | Sear. | |
| 30 | Sear and safety spring. | |
| 31 | Sear and disconnector pin. | |
| 32 | Disconnector | |
| 33 | Trigger. | |
| 34 | Grip safety. | |
| 35 | Grip safety pin and slide lock. | |
| 36 | Handle butt piece. | |
| 37 | Handle butt pin. | |
| 38 | Handle butt pin lock. | |
| 39 | Lanyard loop. | |
| 40 | Lanyard loop lock pin | |
| 41 | Magazine tube. | |
| | Magazine base. | |
| | Magazine base pins (2). | |
| | Magazine base loop. | |
| 42 | Magazine spring | |
| 43 | Magazine follower. | |
| 44 | Magazine catch. | |
| 45 | Magazine catch spring. | |
| 46 | Magazine catch lock pin. | |
| 47 | Stocks, right and left hand. | |
| 48 | Stock screws (4). | |
| 49 | Screw bushings (4). | |



NOTE—When ordering parts for firearms always state plainly the names and numbers of the parts desired, and the make, caliber and number of the arm for which they are intended

# LANTERNS



### HY-LO, HOT BLAST

Heavy tin; simple lift and well balanced side springs; No. 1 Monarch burner and ⅝-inch wick; fit all globe; heavy wire bail

Doz.

**No. DH**—Height with bail down 13¾ inches; fount holds sufficient oil for 18 hours; weight per dozen 35 lbs $ 7 50

Packed, one dozen in case.

### JUNIOR, COLD BLAST

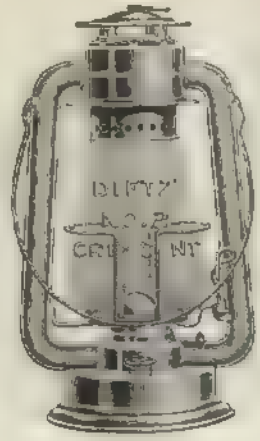
Inside globe lift; No. 1 junior burner with ⅝-inch wick; junior globe, fount holds sufficient oil for 13 hours; height with bail down 11¾ inches. Doz.

**No. DJT**—Plain tin; weight per dozen 30 lbs. . . . . $11.00

**No. DJB**—Lacquered brass; weight per dozen 38 lbs. . . . . 19.50

**No. DJN**—Nickel plated; weight per dozen 38 lbs . . 26 50

Packed, one dozen in box.



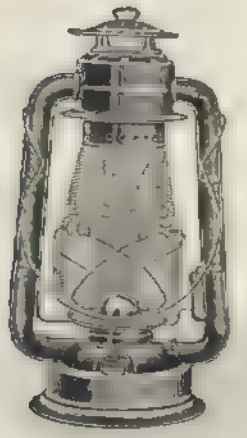
### CRESCENT, COLD BLAST

Heavy tin; inside globe lift with cling guard, No. 2 crescent steel burner with 1-inch wick; cold blast globe; heavy wire bail

Doz.

**No. DC**—Height with bail down 15 inches; fount holds sufficient oil for 18 hours; weight per dozen 50 lbs $11.50

Packed, one-half dozen in box.



### BLIZZARD, COLD BLAST

Inside globe lift with cling globe guard; fount holds sufficient oil for 18 hours; height with bail down 15 inches

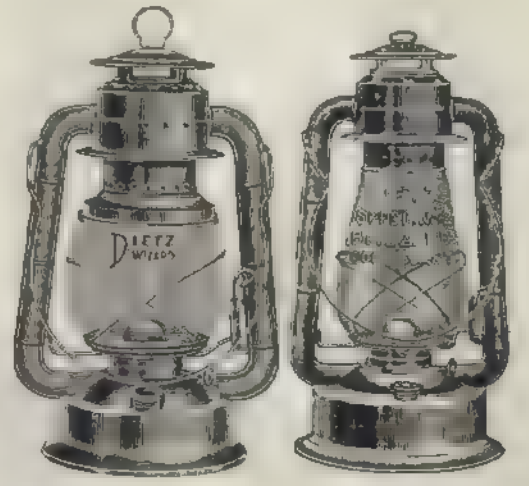
Doz.

**No. 1T**—Plain tin; No. 1 burner with ⅝-inch wick; No. 0 cold blast globe; weight per dozen 40 lbs . . . . . $12 50

**No. DBT**—Plain tin; No. 2 blizzard coneless burner with 1-inch wick; blizzard globe; weight per dozen 52 lbs. 13 50

**No. DBB**—Polished brass fount; otherwise same as No. DBT. . . . . 19 50

Packed, one-half dozen in box.



### WIZARD, COLD BLAST

Heavy tin; inside globe lift with cling globe guard; No. 2 blizzard coneless burner with 1-inch wick; D-lite short globe. Doz.

**No. DW**—Height with bail down 15 inches; fount holds sufficient oil for 18 hours; weight per dozen 52 lbs. $15 00

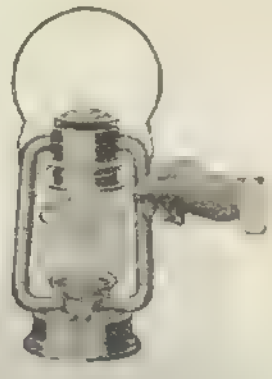
Packed, one dozen in box.

### SPECIAL BLIZZARD, COLD BLAST

Heavy tin; inside globe lift with cling globe guard; extra large fount; No. 2 blizzard coneless burner with 1-inch wick; blizzard globe.

**No. DSB**—Height with bail down 15 inches; fount holds sufficient oil for 40 hours; weight per dozen 60 lbs. Doz. $15.00

Packed, one-half dozen in box.



### D-LITE, COLD BLAST

Telescoping dome permits tilting of globe for cleaning, trimming and lighting the wick; large fount holds sufficient oil for 24 hours; globe made to keep cool; height with bail down 13 inches.

Doz.

**No. DDT**—Extra heavy tin; weight per dozen 48 lbs. . . . . $17 00

**No. DDB**—Polished brass fount and dome; weight per dozen 48 lbs. . . . . 26 50

Packed, one-half dozen in box.

# LANTERNS

No. B1590 No. 95

### ICHABOD

Polished brass; 3⅛-inch base, convex burner; No. 0 wick

Doz

No. B1590—Height with bail down 7¼ inches; weight per dozen 5½ lbs...$ 4.00

Packed, one dozen in box.

### POLICE

Brown japanned; wire handles; for lard oil.

Doz.

No. 95—Height 8 inches; diameter 3½ inches; 2¾-inch lens, weight per dozen 15 lbs $ 9.50

Packed two dozen in case

No. D15 No. D17

### BUCKEYE, DASH

Black japanned; positive locking globe lift; dash clip spring; No. 1 victor burner with ⅝-inch wick; fitall bullseye globe

Doz

No. D15—Height with bail down 13⅛ inches, fount holds sufficient oil for 19 hours; weight per dozen 52 lbs..$13.00

Packed, one-half dozen in box.

### BLIZZARD, DASH

Black japanned; inside lift; No. 2 blizzard coneless burner with 1-inch wick; blizzard globe with 2¼-inch bullseye

Doz

No. D17—Height with bail down 14¾ inches; fount holds sufficient oil for 20 hours; weight per dozen 80 lbs. $21 00

Packed, one-half dozen in box

### BEACON, DASH

Bright tin; deep tin hood with 5-inch spun metal polished and plated reflector; No. 1 acme burner with ⅝-inch wick; fitall globe.

Doz

No. D8 Height with bail down 14¼ inches, fount holds sufficient oil for 20 hours; weight per dozen 64 lbs..$28.50

Packed, one-half dozen in box

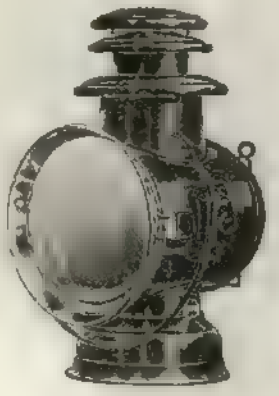
### JUNIOR, SIDE

Black japanned; highly polished corrugated reflector with 2⅛ inch ruby lens set in center to show red warning to the rear; No. 1 junior burner with ⅝-inch wick, Deitz junior bullseye globe; strong metal bracket for attaching to vehicles

Doz.

No. DJ—Height with bail down 11¾ inches, fount holds sufficient oil for 13 hours; weight per dozen 54 lbs $18 50

Packed, one-half dozen in case



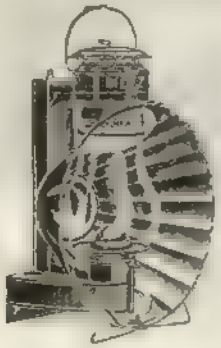
### UNION,. DRIVING

Black japanned cold rolled steel with nickel plated rim on front lens; non-tarnishing aluminum reflector; No. 0 union burner with ⅜-inch wick; 5⅛-inch plain lens in front and 2¾-inch ruby lens in back; with dash clamp and spring clip.

Doz.

No. DU—Height with bail down 11¼ inches, fount holds sufficient oil for 10 hours; weight per dozen 72 lbs. $55 50

Packed, one-half dozen in box.



### BEACONLIGHT

Blue japanned; large spun metal polished and plated reflector with 2¾-inch bullseye lens No. 2 blizzard burner with 1-inch wick blizzard globe

Doz

No. D30—Height with bail down 15¼ inches; fount holds sufficient oil for 35 hours; weight per dozen 90 lbs..$42.50

Packed, one-half dozen in box

# Genuine French Briar Pipes

Each Pipe Put Up In Plush Lined Leather or Chamois Case.

**7720** Genuine French Briar Pipe, Genuine Amber Mouthpiece, Gold Filled Trimming, in Plush Lined Leather Case, Illustration Full Size, **$3 75** each.

**7721** Genuine French Briar Pipe, Genuine Amber Mouthpiece, Gold Filled Trimming, in Plush Lined Leather Case, Illustration Three-quarter Size, **$5 00** each.

**7722** Genuine French Briar Pipe, Genuine Amber Mouthpiece, in Plush Lined Leather Case, Illustration Full Size, **$4 80** each.

**7723** Genuine French Briar Pipe, Genuine Amber Mouthpiece, Gold Filled Trimming, in Plush Lined Leather Case, Illustration Three-quarter Size, **$5 65** each.

**7724** Genuine French Briar Pipe, Genuine Amber Mouthpiece, Gold Filled Trimmings, in Plush Lined Leather Case, Illustration Three-quarter Size, **$7 20** each.

**7725** Genuine French Briar Pipe, Genuine Amber Mouthpiece, Gold Filled Trimming in Plush Lined Leather Case, Illustration Three-quarter Size, **$8** each.

**7727** Genuine French Briar Pipe, Genuine Amber Mouthpiece, Gold Filled Trimming, in Plush Lined Chamois Case, Illustration Three-quarter Size, **$7 50** each.

**7726** Genuine French Briar, Genuine Amber Mouthpiece, Gold Filled Trimmings, in Plush Lined Leather Case, Illustration Three-quarter Size, **$9 40** each.

# Ladies' and Misses' Fine Fall and Winter Suits

## OUR LADIES WEAR THESE STYLES

**The latest 1913 Fall and Winter Models** Can furnish any of the Suits shown on this page in Misses' or Ladies' sizes. Misses' sizes, 14 to 20; Ladies', 32 to 44. Skirt lengths, 38 to 43, and 22 to 30 around the waist.

Misses' sizes are the same as 32 to 38 Ladies' sizes, except a trifle shorter at the waist line.

**No. X100 Misses' or Ladies' Good Quality Diagonal Worsted Suit.** Coat 35 inches long, semi-fitting back, very fine shaped [illegible] off with [illegible] bone [illegible] with [illegible] stitched effect, trimmed with a fancy cut strap at knee depth, from which full [illegible] ful pleats, giving the fullness at the bottom. Colors black or brown. **Per suit** ..... **$26.00**

**No. X101. Ladies' or Misses' Fine All-Wool Serge Suit.** Coat 36 inches long, semi-fitting back, [illegible] off with [illegible] trimmed with [illegible] and [illegible] and [illegible] Skirt [illegible] pleats, [illegible] Colors blue, brown or black. **Per suit** ..... **$35.50**

**No. X102. Ladies' or Misses' Strictly All-Wool Diagonal Worsted Suit.** Coat 36 inches long, new cutaway style, mannish shaped [illegible] and collar, collar lined with fine quality silk velvet, sleeves trimmed with silk [illegible] and [illegible] buttons, fine satin lined. Skirt cut in 6-gore pattern, high waistline effect, [illegible] concealed under left side seam. Colors black, blue or brown. **Per suit** ..... **$36.80**

**No. X103. Ladies' or Misses' Strictly All-Wool Broadcloth Suit.** Coat 35 inches long, semi-fitting back, trimmed with soutache-covered buttons and loops, lined with good quality satin. Skirt cut in 5-gore pattern, trimmed to match coat. Colors blue, brown or black. **Per suit** ..... **$37.85**

**No. X104. Ladies' or Misses' Strictly All-Wool Serge Suit.** Coat [illegible] inches, cut in new cutaway style, mannish effect, lapels, [illegible] shaped [illegible] finished off at bottom with one-inch loose edge [illegible] at [illegible] side. Cuffs trimmed with combination [illegible] lined with good quality satin. Skirt cut in 5 gores, [illegible] side [illegible] seam front and back. Colors brown, blue or black. **Per suit** ..... **$44.95**

**No. X105. Misses' or Misses' Fine Strictly All-Wool Serge Suit.** Coat 36 inches long, notched collar and lapels made of fine fancy silk, trimmed [illegible] cuffs of silk and [illegible] cuffs trimmed to match [illegible] fine [illegible] back at waistline trimmed with loops and [illegible] lined with fine quality silk. Skirt cut in 7 gore pattern, fancy shaped cut at knee, set off with combination soutache and velvet buttons. Closing concealed at left side of [illegible] back. Colors brown, black or blue. **Per suit** ..... **$48.85**

Measurements required on suits—Bust, waist, hip, across back. Suits made to special measure 10 per cent more.

# Fine Fall and Winter Ladies' or Misses' Coats

## All of our clothing is guaranteed to be exactly as represented

We sell only dependable garments, made by the best tailors. It is to our interest to deliver goods that will be an advertisement to you and a credit to ourselves when worn by your customers.

Ladies' sizes, 32 to 44; Misses', 14 to 20. Misses' sizes are same as 32 to 38 Ladies' sizes, except a trifle shorter at waist line.

**No. X106. Ladies' or Misses' Navy Blue Diagonal Blazer Cloth Storm Coat.** Length 52 inches, storm collar, trimmed with black and white diagonal cloth, patch pockets to match fancy buttons. Each . . . . . $17.75

**No. X107. Ladies' Fine Black Melton Cloth Coat.** Length 52 inches, semi-fitting model, pleats on each side of back. Shawl collar trimmed with silk embroidery, cuffs to match, yoke lined with same material. Each . . . . . $17.75

**No. X108. Ladies' or Misses' Fine Gray Eiblene Cloth Coat.** Length 50 inches, shawl collar effect trimmed with imitation Persian, set on cloth and one row of soutache piping, cuffs trimmed with soutache loops and two fine combination buttons, front closing with large silk ornament. Each . . . . . $20.10

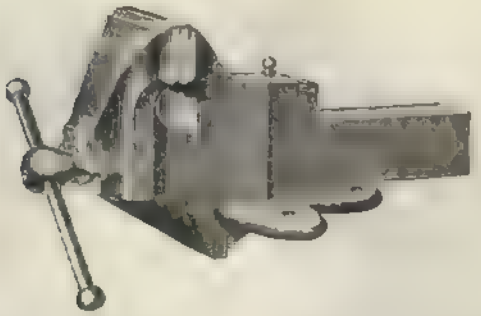
**No. X109. Ladies' or Misses' Fine Quality Black Broadcloth Coat.** Length 52 inches, collar and lapels covered with Skinners' satin, trimmed with soutache loops, front closing with two large silk frogs, lined with good quality satin. Each . . . . . $27.20

**No. X110. Ladies' or Misses' Fine Chinchilla Coat.** Length 50 inches, storm collar, large patch pockets, collar and cuffs trimmed with a fine quality plush, and buttons to match. Colors gray or navy blue. Each . . . . . $28.85

**No. X111. Ladies' or Misses' Fine Quality All-Wool Chinchilla Coat.** Length 52 inches, plaid seam, collar satin effect, entire coat piped on all seams and edges with fine quality satin, velvet back trimmed with silk braid and ornamental buttons. Colors of coat plaid, collars and cuffs of a reversible pattern, front set off with large silk loop. Colors gray or navy blue. Each . . . . . $41.35
Coats made to special order 10 per cent extra

# VISES

## PARKER VICTOR



Semi-steel; polished steel jaws, milled and fitted; self-adjusting back jaw, allowing odd shaped articles to be firmly clamped; polished steel screw head and sliding handle; made for heavy work.

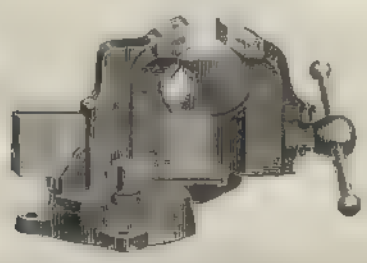
| Nos. | 376 | 377 |
|---|---|---|
| Size jaws, inches | 4 | 4½ |
| Opens to, inches | 7½ | 9½ |
| Weight, lbs. | 42 | 62 |
| Each | $14.50 | 20 50 |

## PARKER PARALLEL

Hardened steel, painted green; polished and milled jaws; polished steel screw head, sliding handle and bar; hardened steel jaws.

| Nos. | 0000 | 100 | 400 |
|---|---|---|---|
| Size jaws, inches | 2¼ | 3⅜ | 5⅝ |
| Opens to, inches | 4 | 4¼ | 6¾ |
| Weight, lbs. | 23½ | 32½ | 83 |
| Each | $9 00 | 11 00 | 26.50 |

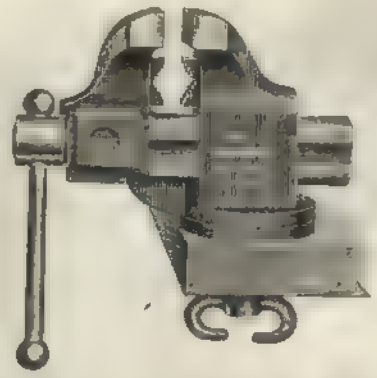
## PARKER COMBINATION



Swivel base; can be swung to any position and locked; polished steel screw and head; sliding handle and bar; polished steel jaws, faces milled and fitted; both round and pipers' jaws.

| Nos. | 87 | 88 |
|---|---|---|
| Size jaws, inches | 3½ | 4½ |
| Opens to, inches | 4¾ | 6¼ |
| Adjustable to pipe, inches | 3 | 3 |
| Weight, lbs. | 48 | 61 |
| Each | $15.00 | 19.50 |

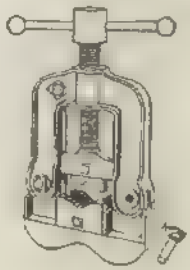
## ERIE COMBINATION PIPE



Cast iron swivel base; polished tool steel jaws; carefully hardened and tempered tool steel pipe jaws; polished steel screw, sliding bar and handle.

| Nos. | 0C | 1C | 2C |
|---|---|---|---|
| Width jaws, inches | 3 | 3½ | 4 |
| Capacity pipe, inches | ⅛ to 1½ | ⅛ to 2 | ⅛ to 3 |
| Opens to, inches | 4½ | 5 | 5½ |
| Weight, lbs. | 24 | 30 | 41 |
| Each | $7.00 | 9.50 | 12.00 |

## ERIE PIPE



No. 0A

No. 1S

No. 0A—Malleable iron hinged frame, black japanned; pin lock; three hardened, polished steel jaws; adjustable to pipe from ⅛ to 2 inches; 10 inches high; weight 4¾ lbs. ..... $ 2.00

No. 1S—Malleable iron hinged frame, black japanned; opens on either side by changing bolt; three hardened tool steel jaws, milled and polished; steel screw and sliding handle; adjustable to pipe from ⅛ to 2½ inches; height 11 inches; weight 8¾ lbs ..... 2 50

## SOLID BOX

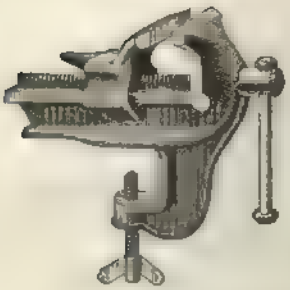
Wrought steel jaws, forged from one piece of steel; face of crucible tool steel; steel screw and sliding lever; heavy flat steel spring.

| | Each |
|---|---|
| No 35—4-inch jaws; weight 35 lbs ..... $10.00 | $ 8 00 |
| No. 40—4 inch jaws weight 39 lbs. ..... $10.50 | 8 40 |
| No. 45—4¼-inch jaws; weight 48 lbs ..... $11 00 | 8 80 |
| No. 50—4¼-inch jaws; weight 53 lbs ..... $11.50 | 9 20 |
| No. 55—4½-inch jaws; weight 57 lbs. ..... $12.00 | 9.60 |
| No. 60—4½-inch jaws; weight 62 lbs ..... $13.00 | 10 40 |
| No. 70—5-inch jaws weight 71 lbs. ..... $15 00 | 12 00 |
| No. 80—5½ inch jaws, weight 83 lbs. ..... $17.50 | 14 00 |
| No 90—5½ inch jaws weight 94 lbs ..... $20 00 | 16 00 |

Loose.

# VISES

## BONNEY



Nos. 1 to 2

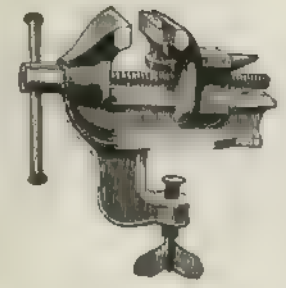
Cast iron, black japanned; polished jaws and anvil face; solid steel screw with machine threaded head and collar in one solid piece; lever sliding handle; nut clamp screw.

| | Each |
|---|---|
| No. 1—1½-inch iron jaws; weight 1⅛ lbs. | $ 0.44 |
| No. 1½—1¾-inch iron jaws; weight 1⅝ lbs. | .60 |
| No. 2—2-inch iron jaws; weight 2 lbs. | .80 |

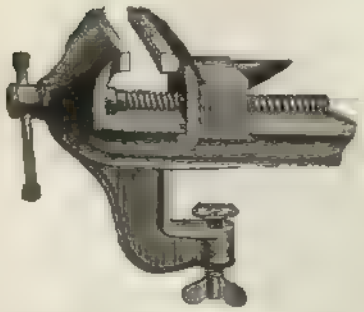
### WITH SWIVEL ATTACHMENT

Cast iron, black japanned; polished and hardened jaws; polished anvil face; solid steel screw with machine threaded head and collar in one solid piece; sliding lever handle; nut clamp screw.

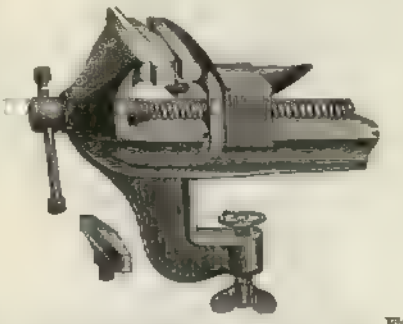
| | Each |
|---|---|
| No. 3—2¼-inch steel jaws; weight 3 lbs. | $ 1.40 |



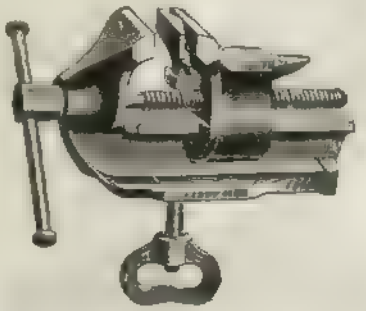
No. 3



| | Each |
|---|---|
| No. 4—2⅝-inch polished iron jaws; cast iron body, black japanned, polished anvil face; heavy hardened steel screw and head; sliding anvil; malleable iron swivel and screw, nut clamp screw; weight 4½ lbs | $ 1.90 |

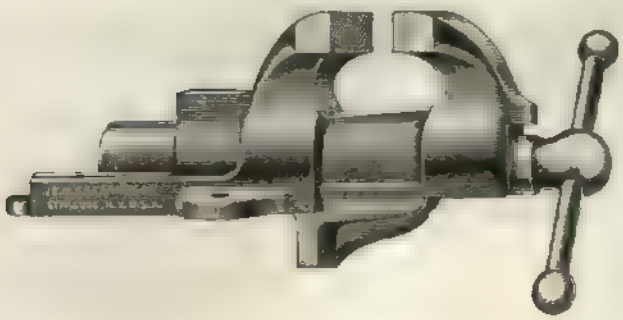


| | Each |
|---|---|
| No. 5—2¾-inch polished iron jaws; with swivel attachment; cast iron body, black japanned, hardened solid steel screw and head; polished anvil face; sliding handle; swivel end screw; wing nut and clamp screw, weight 4½ lbs | $ 2.30 |
| No. 7—2¾-inch steel jaws; otherwise same as No. 5 | 2.60 |



| | Each |
|---|---|
| No. 8 2¾-inch polished and milled steel jaws polished hardened steel screw and head; polished anvil face and sliding handle; with bench attachment, allowing vise to be moved either forward or backward and clamped in position; weight 4½ lbs | $ 2.30 |

## OVAL SLIDE



One-piece milled steel jaws; polished steel screw and head; sliding handle.

| Nos. | 5 | 6 | 7 | 8 |
|---|---|---|---|---|
| Size jaws, inches | 2½ | 3 | 3½ | 4 |
| Opens to, inches | 3½ | 4½ | 5⅝ | 5¾ |
| Weight, lbs. | 8 | 12 | 19 | 28 |
| Each | $2.00 | 2.60 | 3.40 | 4.00 |

## KEYSTONE MECHANICS'

Solid steel faced jaws, polished and hardened milled faces; one piece polished steel screw and head; covered screw.

| Nos. | B | D | F | G | H |
|---|---|---|---|---|---|
| Size jaws, inches | 2¼ | 3 | 3½ | 4 | 4½ |
| Opens to, inches | 3 | 4 | 5 | 6 | 7 |
| Weight, lbs. | 5½ | 13½ | 21 | 32 | 48 |
| Each | $2.50 | 4.50 | 5.70 | 7.50 | 10.50 |

## HAND BELLOWS

Good quality sheepskin; wood parts grained; galvanized iron nose; leather bound.

| | Doz. |
|---|---|
| No. 8—Size 7¾x16½ inches; weight per dozen 16 lbs. Loose. | $12.50 |

## LEVELS

Hardwood, rosewood finish, polished; nickeled top plate; side views.

Doz.

No. 100—Length 12 inches; for use with cream separators; weight per dozen 6 lbs. . . . . $ 2 00

Packed, one-half dozen in box.

Cherry polished; nickeled, arch top plate; side views

Doz.

No. 1—Assorted lengths 10 to 16 inches; weight per dozen 10 lbs. . . . . $ 6 00

Packed, one dozen in box.

Hardwood, rosewood finish, polished; square brass top plate; side views.

Doz.

No. 102—Assorted lengths 10 to 16 inches, weight per dozen 16 lbs. . . . . $ 6 50

Packed, one dozen in box.

## PLUMBS AND LEVELS

### STANLEY

Hardwood, cherry finish, varnished; one piece stock; square brass top plate; side views

Doz.

No. 104—Assorted lengths 12 to 18 inches; weight per dozen 16 lbs. . . . . $10 00

Packed, one dozen in case

### STANLEY, ADJUSTABLE

Hardwood, cherry finish, varnished; one piece stock; square brass top plate; side views.

Doz.

No. 1X—Assorted lengths 24 to 30 inches; weight per dozen 40 lbs. . . . . $16.00

Packed, one-half dozen in case

### STANLEY, ADJUSTABLE

Hardwood, cherry finish, polished; one piece stock; square brass top plate; side views; brass tips on ends.

Doz.

No. 3—Assorted lengths 24 to 30 inches; weight per dozen 44 lbs. . . . . $21.00

Packed, one-half dozen in case

### STANLEY, DUPLEX ADJUSTABLE

Hardwood, cherry finish, polished; one piece stock; square brass top plate; side views; brass tips on ends; fitted with three glasses, one level glass set in top, one plumb glass, and another level glass set in side, which can be readily reversed to form a second plumb glass if desired; open on reverse side of plumb and extra level glasses have brass plumb rings

Doz.

No. 30—Assorted lengths 24 to 30 inches; weight per dozen 49 lbs. . . . . $27.00

Packed, one-half dozen in case.

### STANLEY, NON-ADJUSTABLE

Hardwood, cherry finish, varnished; one piece stock; square brass top plate; side views.

Doz.

No. 00—Assorted lengths 18 to 22 inches; weight per dozen 32 lbs. . . . . $12.00

No. 0—Assorted lengths 24 to 30 inches; weight per dozen 39 lbs. . . . . 13.50

Packed, one-half dozen in case

### STANLEY, ADJUSTABLE

Hardwood, cherry finish, polished; one piece stock; square brass top plate; side views, brass tipped.

Doz.

No. 2—Assorted lengths 24 to 30 inches; weight per dozen 42 lbs. . . . . $18.00

Packed, one-half dozen in case.

### STANLEY, ADJUSTABLE

Hardwood, cherry finish, polished; triple stock; square brass top plate; ornamental brass tipped side views; brass tips on ends.

Doz.

No. 5—Assorted lengths 24 to 30 inches; weight per dozen 45 lbs. . . . . $27 00

Packed, one half dozen in case.

### VICTOR, ADJUSTABLE

Hardwood, cherry finish; polished; one piece stock; square brass top plate; side views; brass tips on corners; plumb glasses so set that user can plumb from either end of level without reversing.

Doz.

No. 13—Length 28 inches; weight per dozen 42 lbs. . . . . $28 00

Packed, one in box.

# PLUMBS AND LEVELS

## CARPENTERS'

### STANLEY, DUPLEX ADJUSTABLE

Polished mahogany; one piece stock; square brass top plate, brass lipped side views; brass tips on ends; fitted with three glasses, one level glass set in top, one plumb glass and another level glass set in side which can be readily reversed to form a second plumb glass if desired; openings on reverse side of plumb and extra level glasses have brass plumb rings.

Doz.

No. 25 Assorted lengths 24 to 30 inches; weight per dozen 44 lbs. ..... $34.00

Packed, one half dozen in box

### AKRON, ECLIPSE

Hard Cuban mahogany, polished; three ply stock, laminated center; oval brass top plate; brass lipped side views; brass plumb rings; brass tips on ends; two plumb glasses, so set that user can plumb from either end of level without reversing; glasses carried on elastic bearings and enclosed in heavy glass tubes.

Doz

No. 6½A—Assorted lengths 24 to 30 inches; weight per dozen 46 lbs. ..... $40.00

Packed, one-half dozen in case.

### STANLEY, ADJUSTABLE

Polished mahogany; one piece stock; square brass top plate; brass lipped side views; brass plumb ring; one piece, heavy brass bound ends and edges; proved glasses.

Doz

No. 95—Assorted lengths 28 and 30 inches; weight per dozen 40 lbs. ..... $72.00

Packed, one in box.

### STANLEY, ADJUSTABLE

Polished mahogany; 1⅛x2⅛-inch stock; square brass top plates; heavy brass bound ends and edges; proved glasses set in adjustable metal cases; each protected by an independent top plate

| No. 1193—Length, inches | 18 | 24 | 28 |
|---|---|---|---|
| Weight per dozen, lbs. | 26 | 34 | 40 |
| Dozen | $44.00 | 52.00 | 56 00 |

Packed one in box

### STANLEY, ADJUSTABLE

Polished rosewood; five ply stock; square brass top plate; brass lipped side views; brass plumb ring; one piece, heavy brass bound ends and edges; proved glasses.

Doz.

No. 96 Assorted lengths 28 and 30 inches; weight per dozen 41 lbs. ..... $100 00

Packed, one in box.

## MASONS'

### DISSTON

Hardwood, mahogany stained, one piece stock, brass arch top plate; side views; complete with japanned iron plumb bob.

Dos.

No. 89—Length 42 inches; weight per dozen 64 lbs.... .....$22 00

Packed, one-half dozen in case

### STANLEY, NON-ADJUSTABLE

Soft wood, mahogany finish, polished; one piece stock; heavy brass top plate; brass lipped side views; brass plumb rings; one non-adjustable plumb and one opening for use of plumb bob and line

Doz

No. 35—Length 42 inches; weight per dozen 64 lbs.. .... $26 00

Packed, one-half dozen in case

### STANLEY, NON-ADJUSTABLE

Hardwood, mahogany finished, polished; one piece stock; brass top plate; side views; two plumbs.

Doz.

No. 8—Length 42 inches; weight per dozen 56 lbs.....$29.00

Packed, one-half dozen in box.

No. 45

### STANLEY, ADJUSTABLE

Soft wood, mahogany finish, polished; one piece stock; heavy brass top plate; side views; brass plumb rings; two adjustable plumbs and two openings for use of plumb bob and line

Doz.

No. 45½—Plain side views; length 48 inches; weight per dozen 60 lbs. ..... $44.00

No. 45—Brass lipped side views, length 48 inches; weight per dozen 70 lbs. .... 48 00

Packed, one half dozen in box

### AKRON ECLIPSE

Hard Cuban mahogany, polished; one piece stock; level glass set in center of stock; four plumbs, which allow level to be used either end up; glasses carried on elastic bearings and enclosed in heavy glass tubes; all adjustable

Doz.

No. 28A—Length 42 inches; weight per dozen 42 lbs.. .....$44 00

Packed, one dozen in box.

# STEWART AUTOMOBILE SPEEDOMETERS

## FLUSH TYPE MODELS

**Model B-Z-12**—Same as Model B-Z, but mounted flush type.....
**Model 102-F**—Same as Model 102, but mounted flush type.....
**Model 103 M**—Same as Model 103, but mounted flush type.....
One in a Case, Weight about 15 lbs.

## FLUSH TYPE COMBINATIONS WITH AND WITHOUT ELECTRIC LIGHT

**Model B-Z- 8**—Combining Model B-Z and Stewart clock, with electric light and mounted flush type.....
**Model B-Z-10**—Combining Model B-Z and No. 2 Seth Thomas 4-jewel clock, with electric light and mounted flush type.....
**Model 102D**—Combining Model 102 and Stewart clock, but without electric light and mounted flush type.....
**Model 103D**—Combining Model 103 and Stewart clock, without electric light and mounted flush type.....
**Model 103H**—Combining Model 103 and No. 2 Seth Thomas 4-jewel clock, with electric light and mounted flush type.....

# STEWART HUB ODOMETERS

**Fits Any Make Truck or Electric Car**

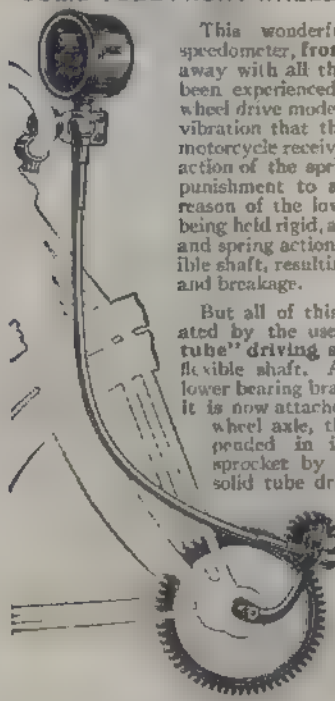
**The Stewart Hub Odometer** is operated by a positive drive that cannot possibly fail. This drive consists, not of the usual discs, but of steel pinions with worm and spiral gears, each pinion being cut from a single piece of steel, heat treated and hardened, to resist wear. With this positive drive there can be no failure of the Odometer to register; every turn of the car wheel is registered with absolute accuracy. Through an ingenious application of the "Geneva Stop" mechanism the dials are locked, excepting at the instant of registering. Those not registering remain locked. Thus it is impossible for the dials to fail to register or to register incorrectly. The dials can not make a single false movement. This Odometer is absolutely springless; there are no jewels or ratchets—nothing to get out of order. The illustration shows the Stewart Hub Odometer fitted in the hub cap of an electric car.

**When Ordering give Make, Model,** Style and Year of Car, also Diameter of Wheel.

Each
**Model H—(Not Including Hub Cap)**..... $15 00

# STEWART MOTORCYCLE SPEEDOMETERS

## SOLID-TUBE FRONT-WHEEL DRIVE, MODEL 101

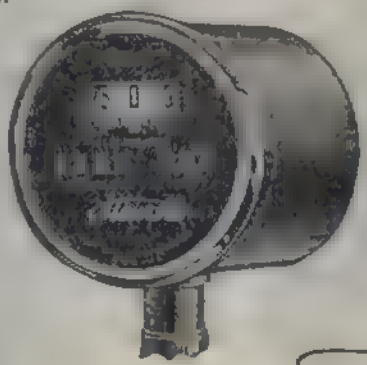


This wonderful new motorcycle speedometer, **front-wheel drive,** does away with all the troubles that have been experienced with former front-wheel drive models. The tremendous vibration that the front wheel of the motorcycle receives, together with the action of the spring fork, was terrible punishment to a flexible shaft. By reason of the lower bracket formerly being held rigid, all the vibration shock and spring action was felt by the flexible shaft, resulting in endless trouble and breakage.

But all of this has now been obviated by the use of the new **"solid tube" driving shaft,** in place of the flexible shaft. Also, instead of the lower bearing bracket being held rigid, it is now attached only to the front wheel axle, the pinion being suspended in its position on the sprocket by means of the rigid, solid tube driving shaft. As now designed, all of the "whipping" [illegible] causes the solid tube to push the pinion down slightly on the sprocket. This virtually makes a free connection, and all of the vibration and springiness that any motorcycle will ever experience can have absolutely no effect upon this new style of **"solid Tube" driving shaft** equipment.

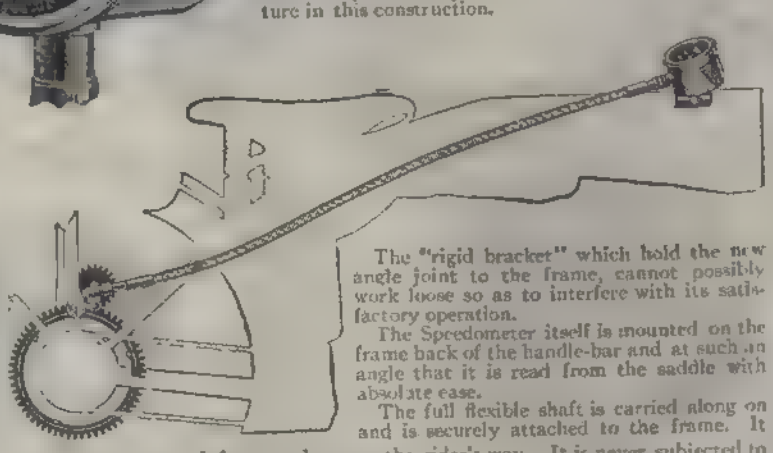
Each
**Model 101**—Front Wheel Drive, with 2¼ inch Dial..... $12.00
One in a Box; Weight about 12 lbs.

## REAR-WHEEL DRIVE, MODEL 101A



The most ruggedly built and equipped motorcycle speedometer made. Furthermore, it is more firmly attached than any other motorcycle speedometer in existence. It is absolutely unaffected by vibration or road shocks.

Fastened to the rear wheel hub is a big, solid cast sprocket, as strong as any part of the machine. The pinion being of fiber, eliminates all gear grinding, as well as all the other noises which make the ordinary speedometer drive so objectionable. The new angle joint, between the pinion and the flexible shaft, is a Stewart special design, and is an entirely new departure in this construction.



The **"rigid bracket"** which hold the new angle joint to the frame, cannot possibly work loose so as to interfere with its satisfactory operation.

The Speedometer itself is mounted on the frame back of the handle-bar and at such an angle that it is read from the saddle with absolute ease.

The full flexible shaft is carried along on and is securely attached to the frame. It cannot work loose and get in the rider's way. It is never subjected to any whipping or twisting strains. It is always in the best possible position for correct operation.

The illustration shows one method of attaching it to the frame. Because of the difference in the designs of motorcycles, a special bracket for each make of motorcycle is made.

Each
**Model 101A**—Rear Wheel Drive, with 2¼ inch Dial..... $12 00
One in a Box, Weight 12 lbs.

# STEWART AUTOMOBILE SPEEDOMETERS

## MAGNETIC TYPE

**When Ordering Give Make, Model and Year of Car; also Diameter of Tire.**

There is Only One Moving Part in the Stewart Magnetic Type Speedometer. The Single Moving Part is a Cup-like Magnet Mounted on the Top of the Speedometer Head Over this Circular Magnet and Inside the Cup. On the Rim of this Cup are the Numbers which indicate the Number of Miles per Hour. There is No Connection between the Cup or Magnet and the Dial. The Turning of the Automobile front Wheel, through the Connection of our Swivel Joint and Flexible Shaft, also Turns the Magnet. As the Magnet Revolves it Acts with Magnetic Force on the Metal Dial Cup. The Faster the Magnet Turns the Greater is the Magnetic "Torque" and consequently, the Further Around this Dial Cup is Pulled. The Number on the Dial Cup that comes Opposite the Pointer is the Number of Miles per Hour that the Automobile is Traveling.

**The Odometer** is a Simple Mechanism of Gears, Pinions and Dials with Figures on Each Wheel. There are no Pawls or Ratchets in the Register Construction. No Possibility of the Drive Slipping—no Inaccurate Registration. Mileage and Trip Mileage are Required. A Rugged, Costly Mechanism that will not Wear. The Season Odometer Registers 100,000 Miles and Repeats. The Trip Odometer Registers 100 Miles and can be Set to Zero at any Time to Any Tenth of a Mile.

**The Stewart Swivel Joint** is also an Exclusive Feature. Satisfactory Service of Speedometer and Equipment Depends Greatly Upon the Swivel Joint, which Eliminates the Needle Sharp Bends in the Flexible Shaft, and Takes Up all Movement of the Road Wheel when Steering. The Stewart Swivel Joint Will Outwear any Car to Which it is Attached.

**The Flexible Shaft** of the Line into a Knot Without Breaking. The Inner and Outer Walls are of Special Steel Wire. The Driving Core is of Steel Links, the Ends of which are Square and Must Drive Fit in Square Sockets.

**The Road Wheel Gear** is of Heavy Cast Steel, with Milled Teeth of Broad Profile, that will not Cut the Driving Pinion. This Gear is Positively Noiseless.

**The Clocks** Used on Some of the Stewart Combinations are the Famous Seth Thomas Eight-Day Run Wind and Key Set. To Wind You Turn the Knob. To Set, You Pull Out and Turn the Rim. No Key Required. No Taking off of the Bezel to Set the Hands. On Other Combinations we Use the Stewart Clock, which is Key Wind. Merely Turning the Rim Winds the Clock.

**Every Unit, Every Part of the Instrument and Equipment Will Bear the Most Critical Analysis. No More Suitable Material can be Purchased. No Better Workmanship is Known. There is No Better Method of Construction. No Possibility of Making an Instrument more Accurate or Dependable for the Purpose.**

### FOUR-INCH SPEEDOMETERS WITH CLOCK COMBINATIONS

All with Rotating Dial, 100,000-Mile Season Odometer, 100-Mile Trip and 60-Mile Scale. Furnished with 100-Mile Scale, if Desired, at Same Price.

| | Each |
|---|---|
| **Model B-Z-1**—Combining Model B-Z, with No. 2 Seth Thomas 8-Jewel Clock and Electric Light | $85.00 |
| **Model B-Z-2**—Combining Model B-Z, with 2-inch Stewart Clock as Shown in Illustration of Model 102-B, and Electric Light | 65.00 |
| **Model 103-B**—Combining Model 103 with 2½-inch Stewart Clock, and Electric Light | 60.00 |
| **Model 103-F**—Combining Model 103 with No. 2 Seth Thomas 8-Jewel Clock and Electric Light | 75.00 |

### FOUR-INCH DIAL

All with Rotating Dial, 100,000-Mile Season Odometer, 100 Mile Trip and 60-mile Scale. Furnished with 100-mile Scale, if Desired, at Same Price.

| | Each |
|---|---|
| **Model B-Z**—As Illustrated Above | $50.00 |
| **Model 103**—Dial as per that Shown in Illustration of Model 103-K | 40.00 |

### THREE INCH SPEEDOMETERS WITH AND WITHOUT CLOCK COMBINATIONS

All with Rotating Dial, 100,000-mile Season Odometer, 100-mile Trip and 60-Mile Scale. Furnished with 100-mile Scale, if Desired, at Same Price.

| | Each |
|---|---|
| **Model 102**—3-inch Dial | $25.00 |
| **Model 102-B**—Combining Model 102 with 2-inch Stewart Clock; No Electric Light | 40.00 |

### THREE-INCH DIAL

| | Each |
|---|---|
| **Model 104**—Rotating Dial; 3-inch Dial, 30-Mile Scale, 100,000-Mile Season Odometer, 100-Mile Trip Register, Suitable for Driving Trucks or Electric Cars | $20.00 |

### FOUR INCH SPEEDOMETERS WITH ELECTRIC LIGHT

All Having Rotating Dial, 100,000-Mile Season Odometer, 100-Mile Trip and 60-Mile Scale. Furnished with 100-Mile Scale, if Desired, at Same Price.

| | Each |
|---|---|
| **Model B-Z-5**—Same as Model B-Z, But With Electric Light | $55.00 |
| **Model 103K**—Same as Model 103, but with Electric Light | 45.00 |

### POINTER-TYPE MODEL THREE-INCH DIAL

| | Each |
|---|---|
| **Model 20**—Pointer Type; 3-inch Dial, 60-Mile Speedometer, 100,000-Mile Season Odometer, 100-Mile Trip Register, 60-Mile Scale | $20.00 |

# WRENCH ASSORTMENTS

## WILLIAMS' SILENT SALESMAN

**Superior Drop Forged Engineers Double Head Wrenches; U. S. Standard Nut, Set and Cap Screw Sizes.**

**Forgings are Milled Case Hardened (Black) all over and have Heads Ground Bright.**

**Note**—These Display Boards are only Loaned to Dealers to Display the Silent Salesman Wrench Assortment and when the Dealers discontinue to sell same they must be returned to J. H. Williams & Co., Brooklyn, New York.

### CLASSIFIED LIST OF ASSORTMENT

**Engineers Wrenches; U. S. Standard Nut and Cap Screw Sizes.**

| No | Milled for | Openings Sizes | List Price, 6 Each Semi-Finished |
|---|---|---|---|
| 23 | 3-16 and ¼ Nuts | 13-32 and ½ | $ 26 |
| 725 | ¼ Nuts and ¼ and 5-16 Cap Screws | 7-16 and ⅜ | 1 62 |
| 25 | [illegible] Cap Screws | [illegible] | 62 |
| 27C | ⅜ Nuts or Cap Screws | 9-16 and 11-16 | 1 98 |
| 28C | 7-16 Nuts or Cap Screws | ½ and 28-32 | 2 16 |
| 731A | ½ Nuts and ⅜ and ½ Cap Screws | ¾ and ⅞ | 2 70 |
| 34 | ½ Nuts or Cap Screws | ⅞ and 1 1-16 | 3 60 |
| 736 | ¾ Nuts and ⅞ and 1 Cap Screws | 1 and 1¼ | 4 62 |
| | **U. S. Standard Nut Sizes, "Textile Wrenches."** | | |
| 760B | 3-16 and ¼ Nuts | 13-32 and ½ | 1 38 |
| 761C | 5-16 and ⅜ Nuts | 19-32 and 11-16 | 1 80 |
| 763A | [illegible] Nuts | 25-32 and [illegible] | 2 70 |
| 764B | ⅞ and ½ Nuts | 31-32 and 1 1-16 | 3 42 |
| | **Standard Set Screw Sizes, Set Screw Wrenches.** | | |
| 525 | ¼ and 5-16 Set Screws | ¼ and 5-16 | 1 38 |
| 527 | 5-16 and ⅜ Set Screws | 5-16 and ⅜ | 1 62 |
| 529 | ⅜ and 7-16 Set Screws | ⅜ and 7-16 | 1 98 |
| 531 | 7-16 and ½ Set Screws | 7-16 and ½ | 2 46 |
| | **U. S. Standard Nut Sizes, "S" Wrenches** | | |
| 661A | ¼ and 3-16 Nuts | 5-16 and 13-32 | 1 20 |
| 662B | ¼ and 5-16 Nuts | ½ and 19-32 | 1 [illegible] |
| 663C | ⅜ and 7-16 Nuts | 11-16 and 25-32 | 1 98 |
| 664B | 7-16 and ½ Nuts | 25-32 and ⅝ | 2 52 |
| | | Total | $43 [illegible] |

Per Assortment

**+No. B Silent Salesman**—Contains Six Each of the Wrenches Numbered above, comprising the most Prominent Nut and Cap Screw Sizes and also a Full Line of Set Screw Openings from ¼ to 1 inch Inclusive. Height of Stand overall 54½ inches; Extreme Width 15¾ inches, Weight per Assortment and Display Board Complete 75 lbs. ..... **$60 00**

# WRENCHES IN SETS

## WILLIAMS

**A Combination of Service and General Convenience.**

These Sets are especially Created to meet the Demand for a Reliable Set of Wrenches for use in the Tool Equipment of Automobiles, Gas Engines Motor Boats, Motor Cycles and all Machines requiring a High Grade Wrench. Made of Extra Grade Drop-Forged Steel.

### BIG SIX

Set contains Six Wrenches with Openings Milled for 15 most popular U. S. Standard Nuts and Cap Screws.

Per Set

**No. X4—Semi-Finished;** Size Openings 7-16, ½, 9-16, 11-16, 19-32, 25-32, ⅞, 11-16, 1 and 1¼ inches. **$3 00**
One Set in a Box.

**No. XR4—Semi-Finished;** Same as No. X4 except in Canvas Roll. ..... **$3 50**

**No. F4—Full Finish;** Otherwise same as No. X4 ..... **$4 50**
One Set in a Box.

**No. FR4—Full-Finish;** Same as No. F4 except in Canvas Roll ..... **$5 00**

Weight per Dozen Sets about 35 lbs.

### BIG FIVE

Set contains Five Wrenches with Openings Milled for A. L. A. M. Standard Nuts and Cap Screws.

Per Set

**No. X5—Semi-Finished;** Size Openings ⅜, ½, 9-16, 11-16, ¾, ⅞, 15-16, 1 and 1¼ inches..... **$3 00**
One Set in a Box.

**No. XR5—Same as No. X5 except in a Canvas Roll** ..... **$3 50**

**No. F5—Full Finish;** Otherwise same as No. X5 ..... **$4 00**
One Set in a Box.

**No. FR5—Full-Finish;** Same as No. F5 except in a Canvas Roll **$4 50**

Weight per Dozen Sets about 33 lbs.

### THIN FIVE

Set contains Five Wrenches with Openings Milled for A. L. A. M. Standard Nuts and Cap Screws.

Per Set

**No. X35XX—Semi-Finished;** Sizes ⅜, ½, 9-16, 11-16, ¾, ⅞, 15-16, 1⅛ and 1¼ inches..... **$2 50**

One Set in a Box.

**No. XR35XX—Semi-Finished;** Same as No. X35XX except in a Canvas Roll..... **$3 00**

Weight per Dozen Sets about 30 lbs.

### THIN FIVE

Set contains Five Wrenches with Openings Milled for A. L. A. M. Standard Nuts and Cap Screws.

Per Set

**No. X35TF—Full Finish;** Sizes [illegible] ¾ and [illegible] Milled Openings **$3 00**

One Set in a Box.

**No. XR35TF—Full Finish;** Same as No. X35, except in a Canvas Roll..... **$3 50**

Weight per Dozen Sets 33 lbs.

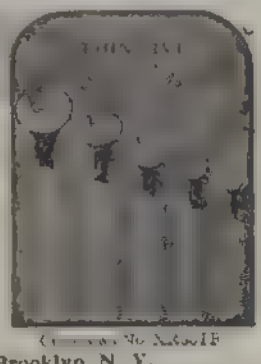
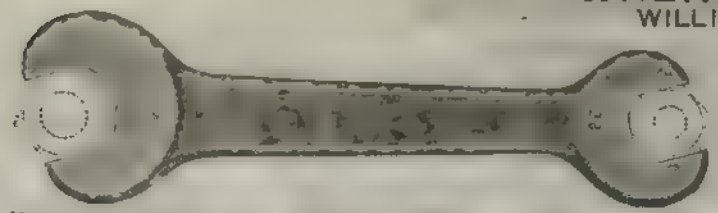


Illustration No. X35TF

**Items Marked + Not Carried in Stock; Can Only Be Furnished by Shipping Direct from Factory, Brooklyn, N. Y.**

# WRENCHES
## WILLIAMS



### ENGINEERS DOUBLE HEAD—SEMI-FINISHED

15° Angle; Extra Quality Drop Forged Steel.

Forgings are Milled, Case Hardened (Black) all over and have Heads Ground Bright.

| Nos | X21 | X23 | X25 | X27 | X29 | X31 | X33 | X35 | X37 | X39 |
|---|---|---|---|---|---|---|---|---|---|---|
| Openings, inches | 5-16-13-32 | 13-32-½ | ½-19-32 | 19-32-11-16 | 11-16-25-32 | 25-32-⅞ | ⅞-31-32 | 31-32-1 1-16 | 1 1-16-1¼ | 1¼-1 7-16 |
| Length, inches | 3½ | 4 | 4⅞ | 5⅞ | 6⅞ | 7¾ | 8¾ | 9¾ | 11⅞ | 13½ |
| Thickness of Heads, inches | 3-16-3-16 | 3-16-¼ | 9-32-9-32 | 5-16-5-16 | 11-32-11-32 | 13-32-13-32 | 7-16-7-16 | ½-½ | 9-16-9-16 | 21-32-21-32 |
| Fits Nuts, Bolt Sizes, inches | ¼-5-16 | 5-16-¾ | ¾-⅜ | ⅜-7-16 | 7-16-½ | ½-9-16 | 9-16-⅝ | ⅝-¾ | ¾-⅞ | |
| Weight each, ozs. | 1½ | 2 | 3½ | 4 | 5 | 7 | 10½ | 14½ | 22 | 30 |
| Each | $0.18 | 0.21 | 0.27 | 0.33 | 0.39 | 0.45 | 0.54 | 0.66 | 0.87 | 1.14 |
| | **0.20** | **0.25** | **0.30** | **0.40** | **0.45** | **0.50** | **0.60** | **0.70** | **1.00** | **1.25** |

IN SETS

**Seven Wrenches:** One each Nos. X25, X27, X29, X31, X33, X35 and X37. Per Set

**No. X40—In Canvas Roll;** One Set; Weight per Dozen Sets about 65 lbs. $4.50

### ENGINEERS DOUBLE HEAD—FULL FINISH

Forgings are Milled, Polished all over, Case Hardened (Mottled) and Lacquered Heads Bright.

| Nos | F21 | F23 | F25 | F27 | F29 | F31 | F33 | F35 | F37 | F39 |
|---|---|---|---|---|---|---|---|---|---|---|
| Openings, inches | 5-16-13-32 | 13-32-½ | ½-19-32 | 19-32-11-16 | 11-16-25-32 | 25-32-⅞ | ⅞-31-32 | 31-32-1 1-16 | 1 1-16-1¼ | 1¼-1 7-16 |
| Length, inches | 3½ | 4 | 4⅞ | 5⅞ | 6⅞ | 7¾ | 8¾ | 9¾ | 11⅞ | 13½ |
| Thickness of Heads, inches | 3-16-3-16 | 3-16-¼ | 9-32-9-32 | 5-16-5-16 | 11-32-11-32 | 13-32-13-32 | 7-16-7-16 | ½-½ | 9-16-9-16 | 21-32-21-32 |
| Fits Nuts, Bolt Sizes, inches | ¼-5-16 | 5-16-¾ | ¾-⅜ | ⅜-7-16 | 7-16-½ | ½-9-16 | 9-16-⅝ | ⅝-¾ | ¾-⅞ | |
| Weight Each, oz. | 1 | 2 | 2½ | 4 | 5 | 7 | 10½ | 14½ | 22 | 30 |
| Each | $0.24 | 0.28 | 0.34 | 0.44 | 0.52 | 0.60 | 0.76 | 0.88 | 1.16 | 1.52 |
| | **0.30** | **0.30** | **0.40** | **0.50** | **0.60** | **0.70** | **0.80** | **1.00** | **1.30** | **1.70** |

IN SETS

**Seven Wrenches;** One each Nos. F25, F27, F29, F31, F33, F35 and F37 Per Set

**No. F49—In Canvas Roll;** One Set; Weight per Dozen Sets about 65 lbs. $5.00

### LIGHT CAP SCREW WRENCH—DOUBLE HEAD—SEMI FINISHED

15° Angle; Extra Quality Drop Forged Steel; for Hexagon Head Cap Screw.

Forgings are Milled; Case Hardened; Black all over and have Heads Ground Bright.

| Nos | 721 | 723 | 725 | 725B | 727 | 729 | 731 | 731B | 733 | 735 | 737 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Openings, inches | 5-16-⅜ | ⅜-7-16 | 7-16-½ | ½-9-16 | 9-16-⅝ | ⅝-¾ | ¾-15-16 | 15-16-1⅛ | 1⅛-1 | 1-1⅛ | 1⅛-1¼ |
| Length, inches | 4 | 4 | 4⅛ | 4⅛ | 5⅞ | 6⅞ | 7⅞ | 7⅞ | 8¾ | 9¾ | 11½ |
| Thickness of Heads, inches | 5-32-5-16 | 3-16-¼ | ¼-9-32 | ¼-9-32 | 9-32-7-16 | 5-16-11-32 | 11-32-13-32 | 13-32-7-16 | 7-16-½ | ½-9-16 | 9-16-⅝ |
| Fits Nuts, Bolt Size, inches | ⅜-5-16 | 5-16-¼ | ¼-5-16 | 5-16-⅜ | ⅜-7-16 | 7-16-½ | ½-9-16 | 9-16-⅝ | ⅝-¾ | ¾-⅞ | |
| Weight Each, ozs. | 1 | 1½ | 2½ | 2½ | 4 | 5½ | 7¾ | 7½ | 10 | 14 | 22 |
| Each | $0.18 | 0.21 | 0.27 | 0.27 | 0.33 | 0.36 | 0.45 | 0.45 | 0.54 | 0.66 | 0.87 |
| | **0.20** | **0.25** | **0.30** | **0.30** | **0.40** | **0.45** | **0.50** | **0.50** | **0.60** | **0.70** | **1.00** |

IN SETS

**Seven Wrenches;** One each Nos. 725, 727, 729, 731, 733, 735 and 737 Per Set

**No. 739—In Canvas Roll;** One Set; Weight per Dozen Sets about 65 lbs. $4.00

### LIGHT CAP SCREW WRENCHES—DOUBLE HEAD—FULL FINISH

Forgings are Milled, Polished all over, Case Hardened (Mottled) and Lacquered; Heads Bright.

| Nos | F721 | F723 | F725 | F725B | F727 | F729 | F731 | F731B | F733 | F735 | F737 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Openings, inches | 5-16-⅜ | ⅜-7-16 | 7-16-½ | ½-9-16 | 9-16-⅝ | ⅝-¾ | ¾-15-16 | 15-16-1⅛ | 1⅛-1 | 1-1⅛ | 1⅛-1¼ |
| Length, inches | 4½ | 4½ | 4⅞ | 4⅞ | 5⅞ | 6⅞ | 7⅞ | 7⅞ | 8¾ | 9¾ | 11½ |
| Thickness of Heads, inches | 5-32-5-16 | 5-16-¼ | ¼-9-32 | ¼-9-32 | 9-32-7-16 | 5-16-11-32 | 11-32-13-32 | 13-32-7-16 | 7-16-½ | ½-9-16 | 9-16-⅝ |
| Fits Nuts, Bolt Size, inches | ⅜-5-16 | 5-16-¼ | ¼-5-16 | 5-16-⅜ | ⅜-7-16 | 7-16-½ | ½-9-16 | 9-16-⅝ | ⅝-¾ | ¾-⅞ | |
| Weight Each, ozs. | 1 | 1½ | 2½ | 2½ | 3¾ | 5½ | 7¾ | 7½ | 10 | 14 | 22 |
| Each | $0.24 | 0.28 | 0.34 | 0.34 | 0.41 | 0.52 | 0.60 | 0.60 | 0.72 | 0.88 | 1.16 |
| | **0.30** | **0.30** | **0.40** | **0.40** | **0.50** | **0.60** | **0.70** | **0.70** | **0.86** | **1.00** | **1.30** |

IN SETS

**Seven Wrenches;** One each Nos. F725, F727, F729, F731, F733, F735 and F737. Per Set

**No. F739—In Canvas Rolls;** One Set; Weight per Dozen Sets about 66 lbs. $5.00

### S WRENCHES WITH FLAT HANDLE

22½° Angle; Double Head; Extra Quality Drop Forged; Full Finish; for Hexagon Head Cap Screws.

Forgings are Milled, Polished all over; Case Hardened (Mottled) and Lacquered Heads Bright.

| Nos | 861D | 862E | 863D | 864D | 864F | 865E | 865G | 866E | 866G |
|---|---|---|---|---|---|---|---|---|---|
| Openings, inches | ⅜-7-16 | ⅜-9-16 | ½-9-16 | ½-¾ | 9-16-¾ | ⅝-15-16 | ¾-⅞ | 13-16-⅞ | ⅞-1 |
| Length, inches | 4½ | 6¾ | 6½ | 7¾ | 7¾ | 8 | 8 | 10 | 10 |
| Thickness of Head, inches | 9-32-7-16 | 5-16-11-32 | ½-11-32 | 13-32-7-16 | 13-32-7-16 | ½-17-32 | ½-17-32 | 17-32-9-16 | 17-32-9-16 |
| Fit Cap Screws, Bolt Size, in. | 3-16-¼ | 5-16-⅜ | 5-16-⅜ | 5-16-½ | ⅜-½ | 7-16-½ | ½-⅝ | 9-16-⅝ | ⅝-¾ |
| Weight Each, ozs. | 2½ | 5¾ | 5 | 6 | 6¼ | 12⅛ | 12¾ | 16½ | 18¼ |
| Each | $0.36 | 0.42 | 0.50 | 0.60 | 0.60 | 0.76 | 0.76 | 1.00 | 1.00 |
| | **0.40** | **0.55** | **0.55** | **0.70** | **0.70** | **0.85** | **0.85** | **1.10** | **1.10** |

All Loose, Except the Sets

*"Diamond Edge is a Quality Pledge"*

# PORT LIGHTS

## STANDARD PORT LIGHTS For Wooden Vessels

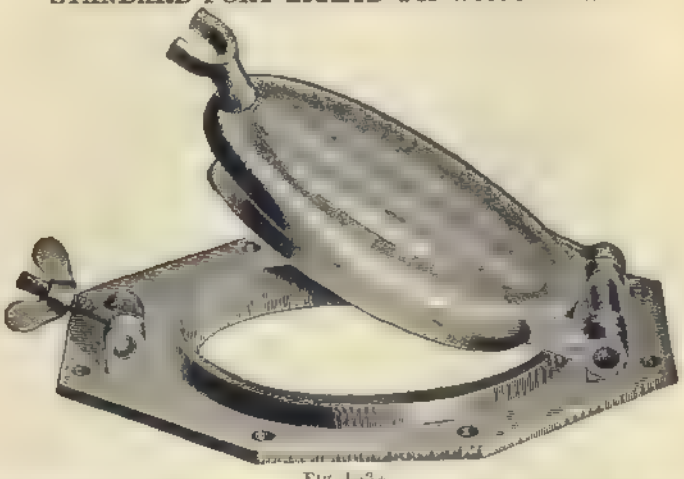


Fig 159

| Size of opening | inches | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| Size of glass, in the clear | inches | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Price, plain brass | each | 2 75 | 3 00 | 3 25 | 4 25 | 5 00 | 6 00 | 8 00 | 12 00 |
| " Polished brass | " | 4 25 | 4 50 | 4 75 | 5 75 | 7 25 | 11 00 | 15 00 | |

## ROUND FRAME PORT LIGHTS For Wooden Hulls

Fig 160

| Size of opening | inches | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| Size of glass, in the clear | inches | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Watershed | " | | 1 | | | | | |
| Price, plain brass | each | 2 50 | 2 75 | 3 25 | 4 00 | 5 50 | 7 50 | 9 00 |
| " Polished brass | " | 4 00 | 4 25 | 4 75 | 5 00 | 7 25 | 8 25 | 9 00 |

Round frame port lights furnished with beveled edge to order

# PORT LIGHTS

## STEEL HULL PORT LIGHTS

Fig. 1636

| Size of opening | inches | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|
| Size of glass, in the clear | " | 3¾ x 2⅜ | 5 x 3½ | 6⅞ x 4½ | 7⅞ x 5⅛ | 8¾ x 5⅝ | 9⅞ x ¾ | 10 x 6¼ | 11½ x ⅞ |
| Watershed | pr. | 5.00 | 7.00 | 8.50 | 10.50 | 16.00 | 20.00 | 25.00 | 32.00 |
| Price, polished brass | " | 7.00 | 9.00 | 11.00 | 13.00 | 20.00 | 23.00 | 28.00 | 40.00 |
| " Weight, tinned glass holder | lbs. | 5 | 6 | 7 | 8 | 10 | 12 | 14 | 16 |

## SINGLE OVAL PORT LIGHTS

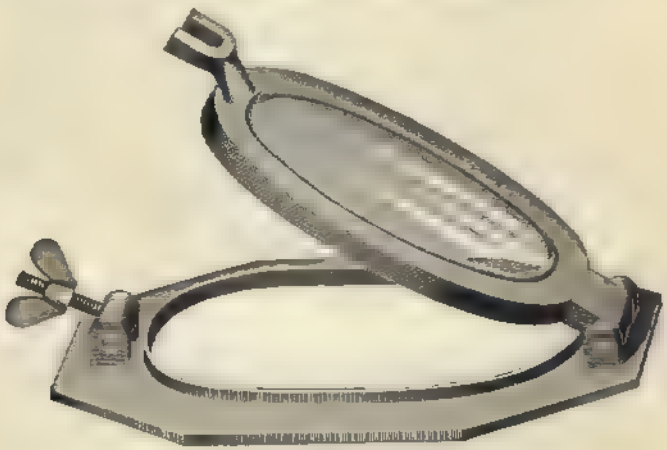


Fig. 1637

| Size of opening in bottom | inches | 4 x 7 | 5 x 9 |
|---|---|---|---|
| Size of glass, in the clear | inches | 6¼ x 3¼ | 8½ x 4½ |
| Price, plain brass | each | 4.00 | 6.00 |
| " Polished brass | " | 6.00 | 8.00 |

# PORT LIGHTS AND FRAMES

## DOUBLE OVAL PORT LIGHTS

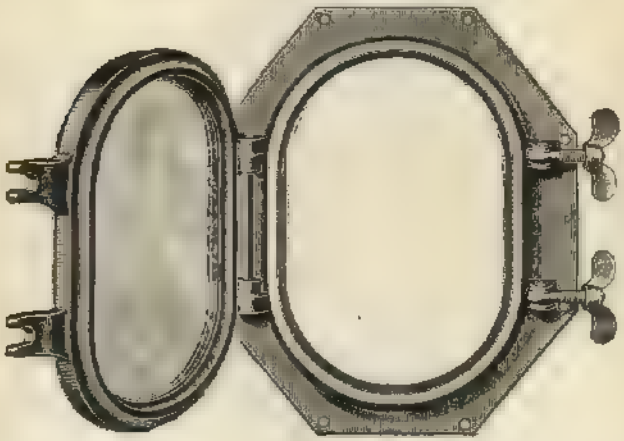


Fig. 1638

| Size of opening in bottom . . . . . inches | 5 x 8 | 5 x 10 | 7 x 14 |
|---|---|---|---|
| Size of glass, in the clear. . . . . inches | $7\frac{3}{4}$ x $4\frac{1}{2}$ | $9\frac{1}{2}$ x $4\frac{1}{2}$ | $13\frac{1}{2}$ x $6\frac{1}{2}$ |
| Price, plain brass. . . . . each | 6.00 | 7 00 | 15 00 |
| " Polished brass . . " | 8 00 | 9 00 | 20 00 |

## ROUND FRAMES FOR GLASS

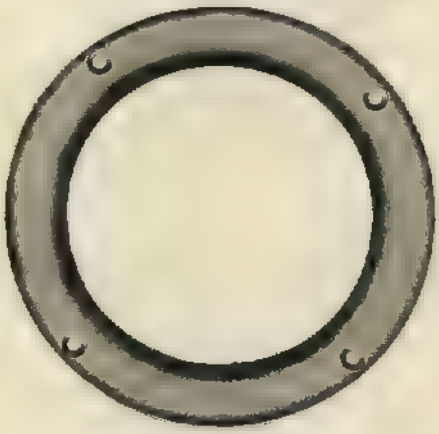


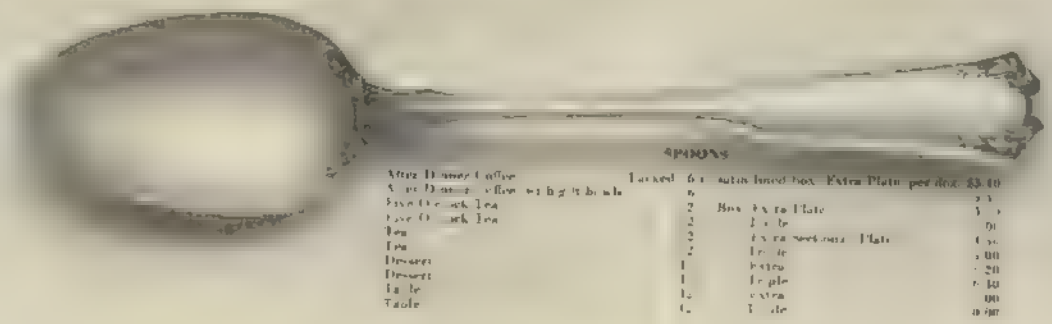
Fig. 1639

| Number . . . | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| Inside diameter inches | $3\frac{7}{8}$ | $4\frac{3}{8}$ | $4\frac{7}{8}$ | $5\frac{1}{4}$ | $5\frac{3}{4}$ | $6\frac{1}{2}$ | $7\frac{1}{4}$ | $8\frac{1}{4}$ | $9\frac{1}{4}$ |
| Outside " " | $5\frac{3}{4}$ | $6\frac{1}{4}$ | $6\frac{3}{4}$ | $7\frac{1}{4}$ | 8 | $8\frac{1}{2}$ | $9\frac{3}{4}$ | 1. | $12\frac{1}{4}$ |
| Price, plain brass. . . . each | .25 | .30 | 40 | .50 | .60 | .65 | .75 | .90 | 1 00 |
| " Polished brass " | 40 | 45 | 55 | 70 | .80 | .90 | 1.05 | 1 25 | 1 50 |

1835 R. WALLACE
Silver Plate that *resists* wear

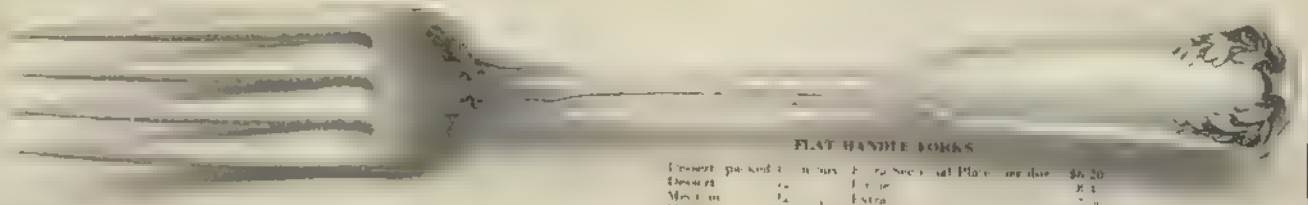
# THE LAUREL

The motif of the Laurel is the historic plant which has for centuries furnished inspiration to designers and artists in other branches of craftsmanship. The treatment gives an impression of graceful elegance, simplicity, and daintiness seldom found outside of sterling. The finish is a lustrous Butler.



SPOONS

| | | | |
|---|---|---|---|
| Mfgr. Dessert Coffee | Packed 6 in satin lined box | Extra Plate per doz. | $3.40 |
| Soup Dessert (Oval Serving Bowl) | 6 | | 3.40 |
| Five O'clock Tea | 2 | Box Extra Plate | 1.70 |
| Five O'clock Tea | 2 | Triple | .90 |
| Tea | 2 | Extra Sectional Plate | 1.70 |
| Tea | 2 | Triple | 3.00 |
| Dessert | 1 | Extra | 1.20 |
| Dessert | 1 | Triple | 1.80 |
| Table | 1/2 | Extra | .90 |
| Table | 1/2 | Triple | 1.20 |

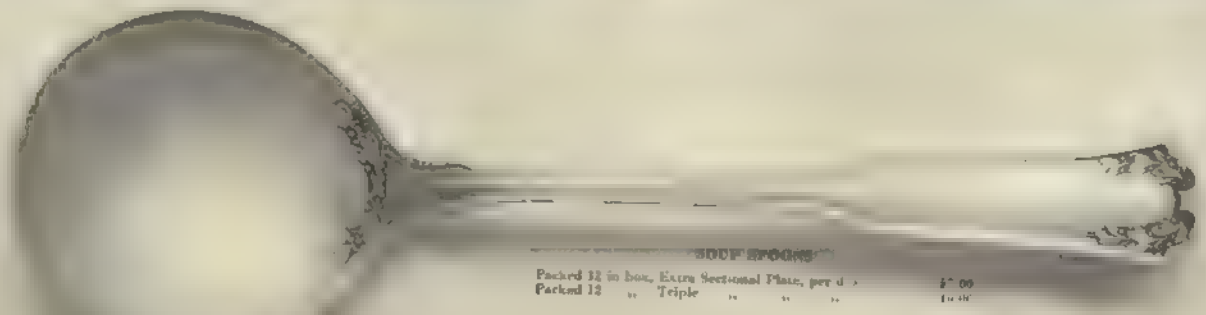


FLAT HANDLE FORKS

| | | | |
|---|---|---|---|
| Dessert packed 6 in box | Extra Sectional Plate per doz. | | $6.20 |
| Dessert | Triple | | 8.40 |
| Medium | Extra | | 7.00 |
| Medium | Triple | | 11.20 |

HOLLOW HANDLE KNIVES

| | | | |
|---|---|---|---|
| Medium | Packed 6 in box | Extra Sectional Plate per doz. | $5.00 |
| Dessert | " | " | 4.00 |



SOUP SPOONS

| | | |
|---|---|---|
| Packed 12 in box, Extra Sectional Plate, per doz. | | $7.00 |
| Packed 12 " | Triple " " " | 10.50 |

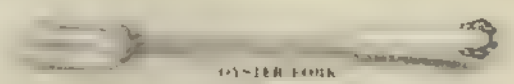
ALL R. WALLACE goods are Sectional Plated in Tea Spoons, Dessert Spoons, Soup Spoons, Table Spoons, Medium Forks and Dessert Forks, on parts most exposed to wear, which increases the wear-resistance threefold.

Illustrations Full Size

# 1835 R.WALLACE
## Silver Plate that *resists* wear

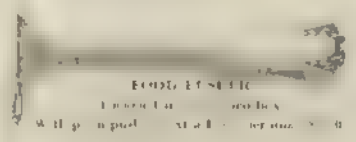
## LAUREL PATTERN

**JELLY KNIFE**

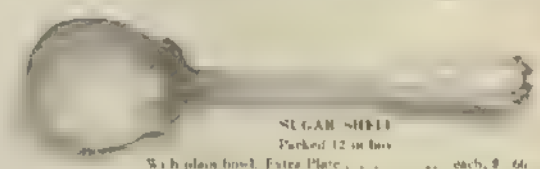


**OYSTER FORK**
Packed 6 in satin lined box
With plain bowl, Extra Plate ... per doz $1 00
With gilt bowl ... 6 00

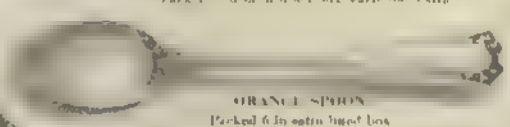
**BABY SPOON**
Packed 6 in satin lined box
With plain bowl, Extra Plate ... per doz $3 00
With gilt ...



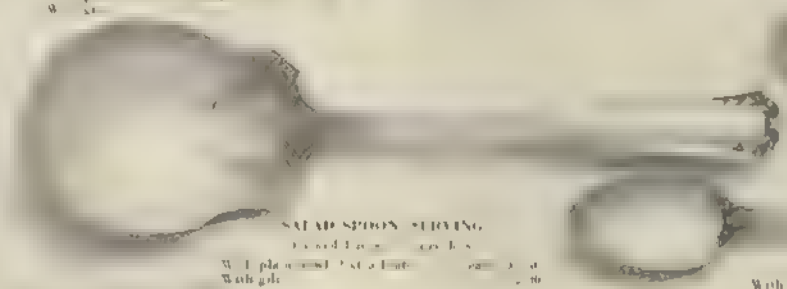
**FOOD PUSHER**
Packed 6 in satin lined box
With plain bowl ... per doz $3 00



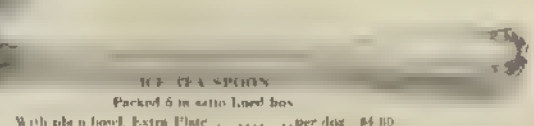
**SUGAR SHELL**
Packed 12 in box
With plain bowl, Extra Plate ... each, $ 60
With gilt bowl ... 80
Packed 6 in satin lined box, each 10c extra



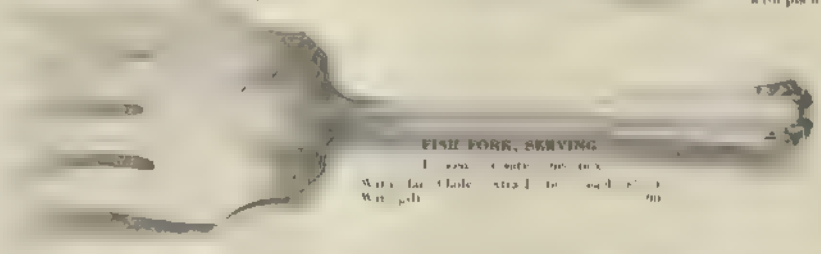
**ORANGE SPOON**
Packed 6 in satin lined box
With plain bowls, Extra Plate ... per doz $5 00
With gilt ...



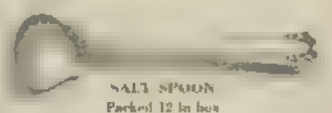
**SALAD SPOON, SERVING**
Packed 1 in satin lined box
With plain bowl, Extra Plate ... per doz $4 00
With gilt bowl ... 5 00



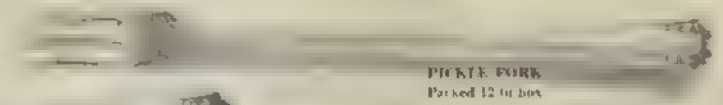
**ICE TEA SPOON**
Packed 6 in satin lined box
With plain bowl, Extra Plate ... per doz $4 80



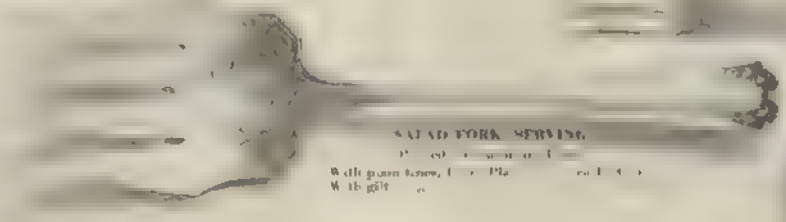
**FISH FORK, SERVING**
Packed 1 in satin lined box
With plain bowl, Extra Plate ... each $1 50
With gilt bowl ... 2 00



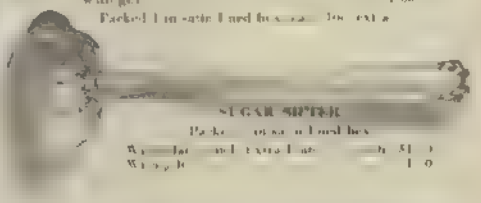
**SALT SPOON**
Packed 12 in box
With plain bowls, Extra Plate ... per doz., $3 00
With gilt bowl ... 4 80



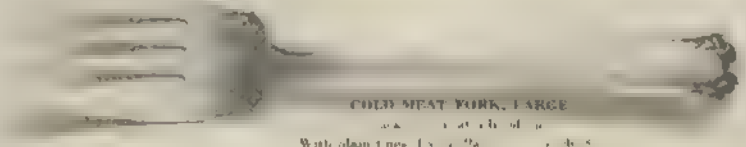
**PICKLE FORK**
Packed 12 in box
With plain bowl, Extra Plate ... each $ 50
With gilt bowl ... 1 00
Packed 1 in satin lined box ... 10c extra



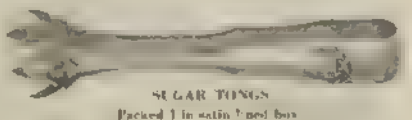
**SALAD FORK, SERVING**
Packed 1 in satin lined box
With plain bowl, Extra Plate ... each $1 50
With gilt bowl ... 2 00



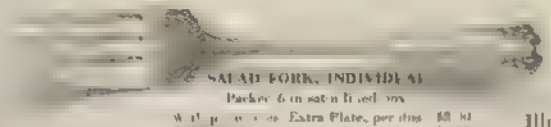
**SUGAR SIFTER**
Packed 1 in satin lined box
With plain bowl, Extra Plate ... each $1 50
With gilt bowl ... 2 00



**COLD MEAT FORK, LARGE**
Packed 1 in satin lined box
With plain bowl, Extra Plate ... each $1 50
With gilt bowl ... 2 00

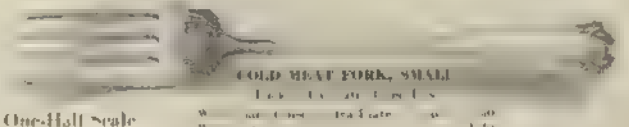


**SUGAR TONGS**
Packed 1 in satin lined box
Extra Plate ... each $1 40



**SALAD FORK, INDIVIDUAL**
Packed 6 in satin lined box
With plain bowl, Extra Plate, per doz $3 00
With gilt bowl ... 4 80

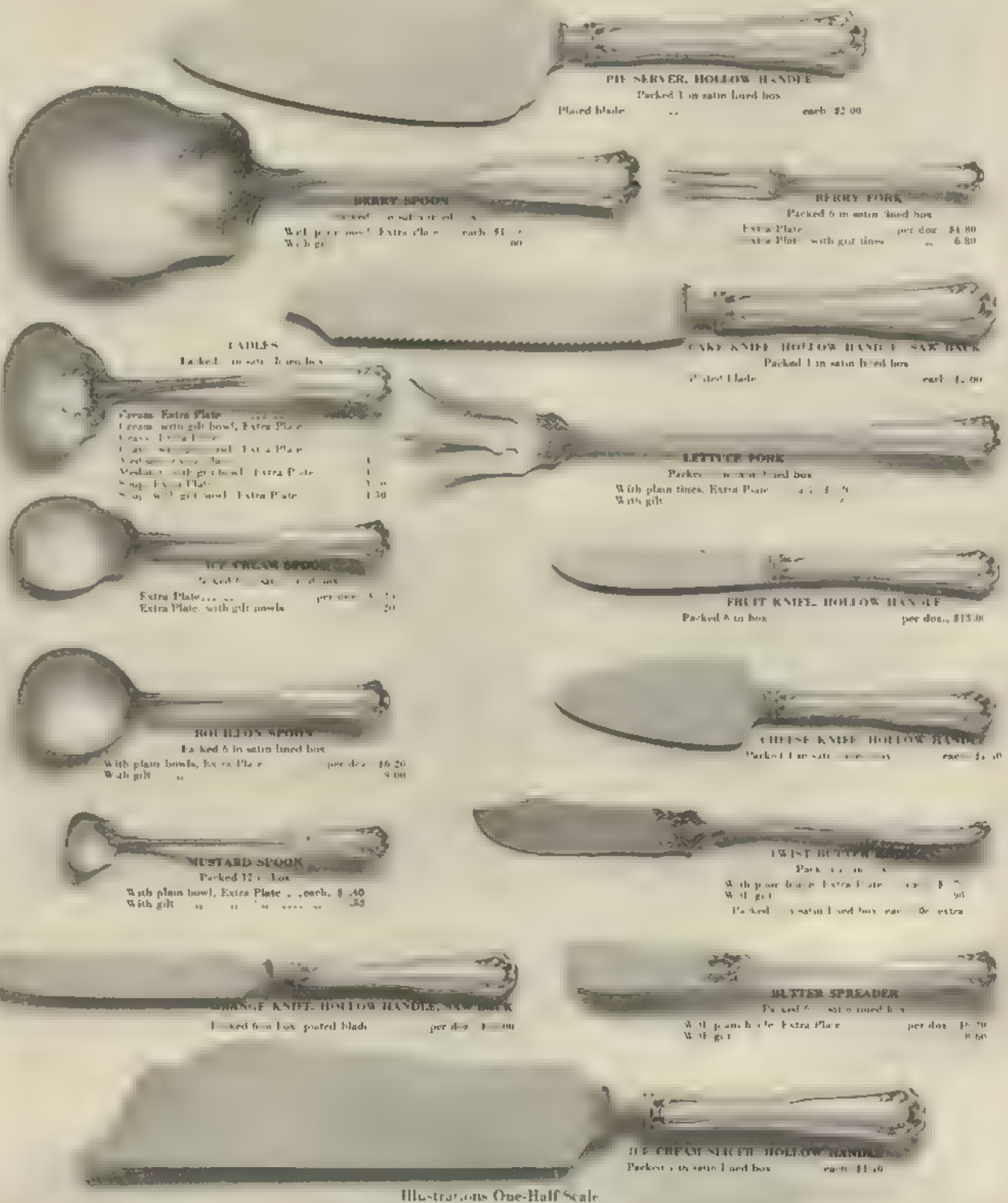
Illustrations One-Half Scale



**COLD MEAT FORK, SMALL**
Packed 1 in satin lined box
With plain bowl, Extra Plate ... each $1 00
With gilt bowl ... 1 50

# 1835 R. WALLACE
## Silver Plate that *resists* wear

## LAUREL PATTERN



**PIE SERVER, HOLLOW HANDLE**
Packed 1 in satin lined box
Plated blade ... each $2.00

**BERRY SPOON**
... Extra Plate ... each $1 ...
With gilt ... 00

**BERRY FORK**
Packed 6 in satin lined box
Extra Plate ... per doz. $4.80
... Extra Plate with gilt tines ... 6.80

**CAKE KNIFE, HOLLOW HANDLE, SAW BACK**
Packed 1 in satin lined box
... Plated Blade ... each $1.80

**LADLES**
Packed ... in satin lined box
... Cream, Extra Plate ...
Cream with gilt bowl, Extra Plate ...
... Extra Plate ...
... with gilt bowl, Extra Plate ...
... Extra Plate ... 1
... with gilt bowl, Extra Plate ... 1
... Extra Plate ... 1.30
... with gilt bowl, Extra Plate ... 1.30

**LETTUCE FORK**
Packed ... in satin lined box
With plain tines, Extra Plate ... $ ...
With gilt ...

**ICE CREAM SPOON**
Packed ... in satin lined box
Extra Plate ... per doz. $ ...
Extra Plate, with gilt bowls ... 20

**FRUIT KNIFE, HOLLOW HANDLE**
Packed 6 in box ... per doz., $13.00

**BOUILLON SPOON**
Packed 6 in satin lined box
With plain bowls, Extra Plate ... per doz. $6.20
With gilt ... 9.00

**CHEESE KNIFE, HOLLOW HANDLE**
Packed 1 in satin ... each $ ...

**MUSTARD SPOON**
Packed 12 in box
With plain bowl, Extra Plate ... each, $ .40
With gilt ... .50

**TWIST BUTTER KNIFE**
Packed ... in satin ...
With plain blade, Extra Plate ... each $ ...
With gilt ... 90
Packed ... in satin lined box, ... 0c extra

**ORANGE KNIFE, HOLLOW HANDLE, SAW BACK**
... Packed four in box, plated blade ... per doz. $ ...

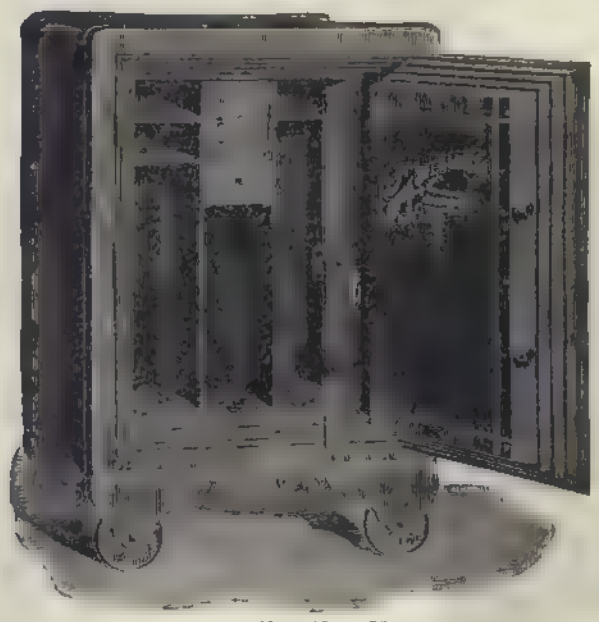
**BUTTER SPREADER**
Packed 6 in satin lined box
With plain blade, Extra Plate ... per doz. $ ...
With gilt ... 8.50

**ICE CREAM SLICER, HOLLOW HANDLE**
Packed 1 in satin lined box ... each $1.40

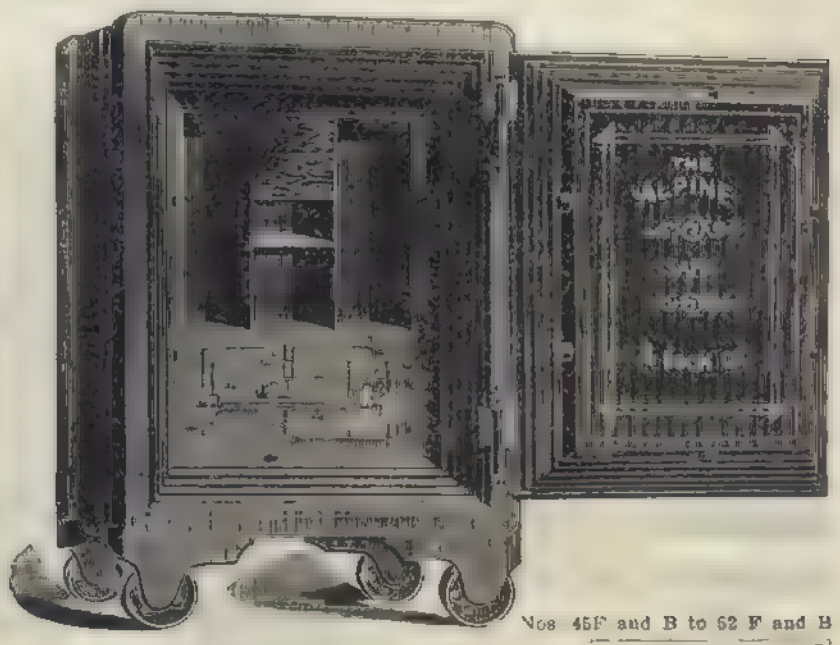
Illustrations One-Half Scale

# *ALPINE FIRE PROOF SAFES

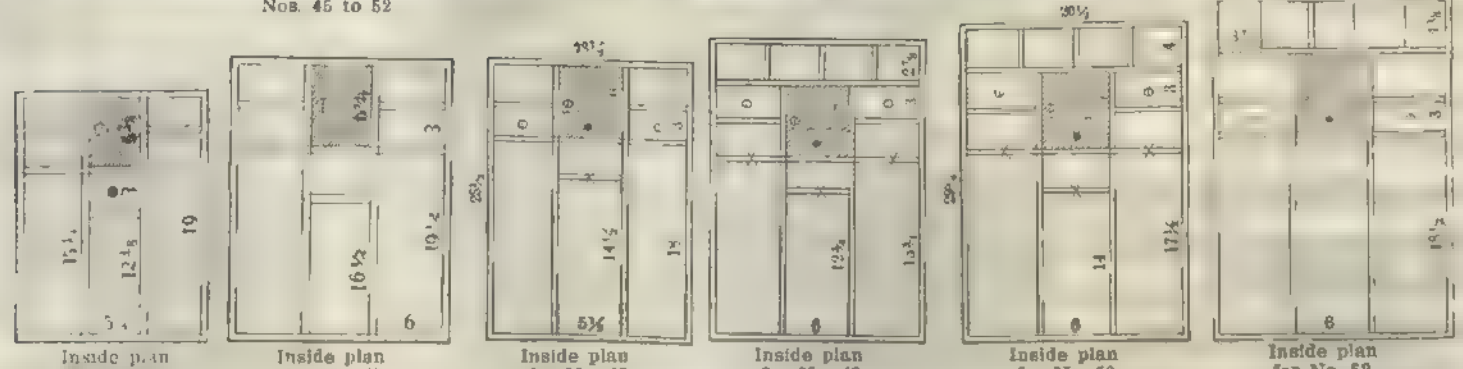
Name of Customer Will Be Lettered on Top Bar of Safe Free of Charge



Nos. 45 to 52



Nos. 45F and B to 52 F and B



Inside plan for No. 45 | Inside plan for No. 47 | Inside plan for No. 48 | Inside plan for No. 49 | Inside plan for No. 50 | Inside plan for No. 52

## SINGLE OUTSIDE AND INSIDE DOORS

Combination or key lock on outside door, as ordered, key lock on inside door

| No. | OUTSIDE MEASURE Height Inches | Width Inches | Depth Inches | INSIDE MEASURE Height Inches | Width Inches | Depth Inches | Approximate Weight | Each | |
|---|---|---|---|---|---|---|---|---|---|
| 45 | 38¾ | 26 | 25 | 22½ | 16½ | 13½ | 1000 lbs. | $100.00 | $ 70.00 |
| 47 | 42½ | 28 | 26 | 26 | 18 | 14 | 1250 lbs. | 120 00 | 84 00 |
| 48 | 45½ | 31 | 28 | 25½ | 18½ | 13 | 1850 lbs. | 170.00 | 119 00 |
| 49 | 47¼ | 31¾ | 28 | 27½ | 19½ | 13 | 2000 lbs. | 180 00 | 126 00 |
| 50 | 50¼ | 32¾ | 29 | 29½ | 20½ | 14 | 2150 lbs. | *200.00 | 140 00 |
| 52 | 52 | 33½ | 29 | 31½ | 21½ | 14 | 2350 lbs. | 215 00 | 150.50 |

## WITH STEEL BURGLAR PROOF CHESTS

### CONSTRUCTION OF BURGLAR PROOF CHESTS

All chests are built of best quality 5-ply chrome steel door and frame are tongued and grooved; locks have detachable dials and built-in spindles, doors close with pressure bars, all angles are 2 and 2 inches; all wrought iron plates ¾ inch thick or heavier, all steel plates are 5-ply best quality of welded steel and iron, all screws best quality steel and iron, twisted, all bolts of calendered steel, the walls are built from the outside inward, it is impossible to locate screws at any point from the outside as each screw passes entirely through one plate and half way through another, the next plate covers the heads of the preceding set of screws as each new plate is added thus, welding the five plates together in such a manner that it is utterly impossible even to locate a screw without beginning at the inside and removing each plate separately, edges of all plates are ground true to insure a snug fit at every point; solid thickness of doors 2 inches, being alternate layers of wrought iron and steel plates.

## SINGLE OUTSIDE AND INSIDE DOORS

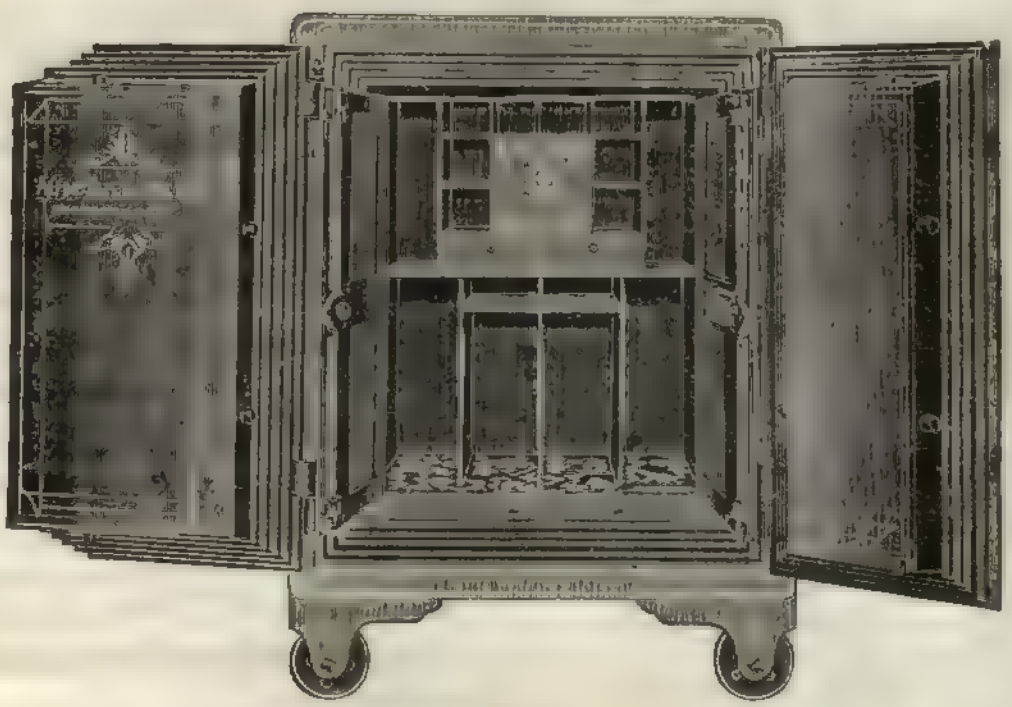
Outside doors and chests have combination locks; inside doors have key locks.

| No. | OUTSIDE MEASURE Height Inches | Width Inches | Depth Inches | INSIDE MEASURE Height Inches | Width Inches | Depth Inches | CHEST OUTSIDE Height Inches | Width Inches | Depth Inches | Approximate Weight Lbs. | Each | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45F&B | 38¾ | 26 | 26 | 22½ | 16½ | 14½ | 14 | 16½ | 12 | 1500 | $300.00 | $210 00 |
| 47F&B | 42½ | 28 | 26 | 26 | 18 | 14 | 14 | 16½ | 12 | 1700 | 320.00 | 224.00 |
| 48F&B | 45½ | 31 | 30 | 25½ | 18½ | 15½ | 14 | 16½ | 12 | 2350 | 360.00 | 252 00 |
| 49F&B | 47¼ | 31¾ | 30 | 27½ | 19½ | 15½ | 14 | 16½ | 12 | 2500 | 380.00 | 266 00 |
| 50F&B | 50¼ | 32¾ | 30 | 29½ | 20½ | 15½ | 14 | 16½ | 12 | 2650 | 400 00 | 280 00 |
| 52F&B | 52 | 33¾ | 30 | 31½ | 21½ | 15½ | 14 | 16½ | 12 | 2800 | 415.00 | 290.50 |

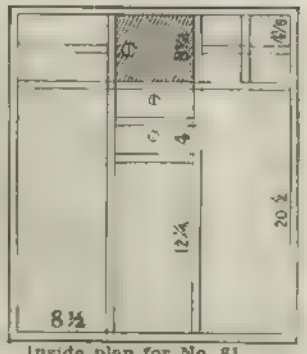
NOTE—Goods marked thus (*) are for factory shipment only.

## *ALPINE FIRE PROOF SAFES

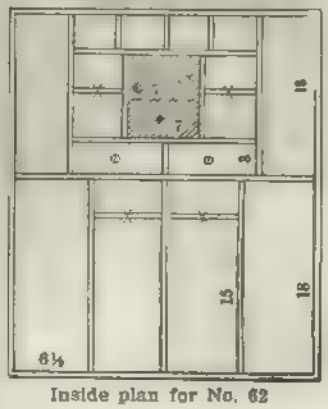
Name of Customer Will Be Lettered on Top Bar of Safe Free of Charge



Nos. 61 and 62

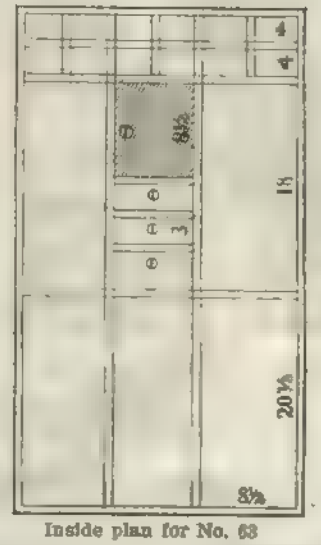



Inside plan for No. 61

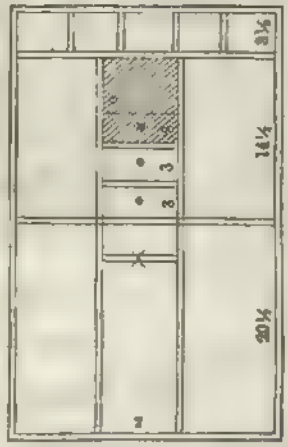



Inside plan for No. 62

Nos. 63 and 64




Inside plan for No. 63




Inside plan for No. 64

### DOUBLE FOLDING OUTSIDE DOORS WITH DOUBLE FOLDING INSIDE DOORS

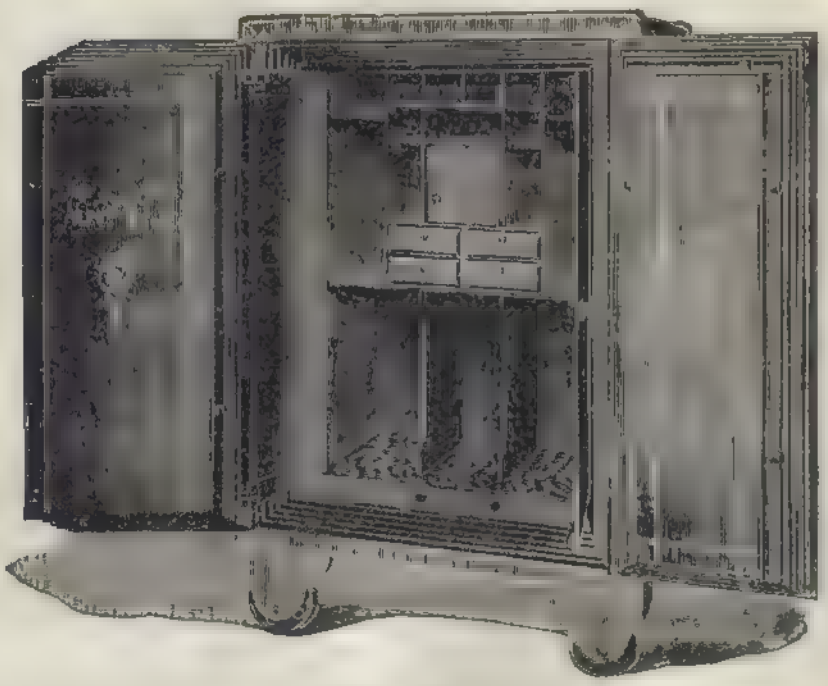
Combination or key lock on outside door, as ordered. Key lock on inside door

| No. | OUTSIDE MEASURE | | | INSIDE MEASURE | | | Approximate weight lbs. | Each | |
|---|---|---|---|---|---|---|---|---|---|
| | Height Inches | Width Inches | Depth Inches | Height Inches | Width Inches | Depth Inches | | | |
| 61 | 50 | 37½ | 31 | 30 | 26 | 15 | 2500 | $260.00 | $182.00 |
| 62 | 55 | 40½ | 30 | 34 | 28 | 15 | 3000 | 310.00 | 217.00 |
| 63 | 68 | 38 | 30 | 48½ | 26 | 16 | 3400 | 350.00 | 245.00 |
| 64 | 60¾ | 36½ | 30 | 39½ | 23¾ | 15 | 3300 | 340.00 | 238.00 |

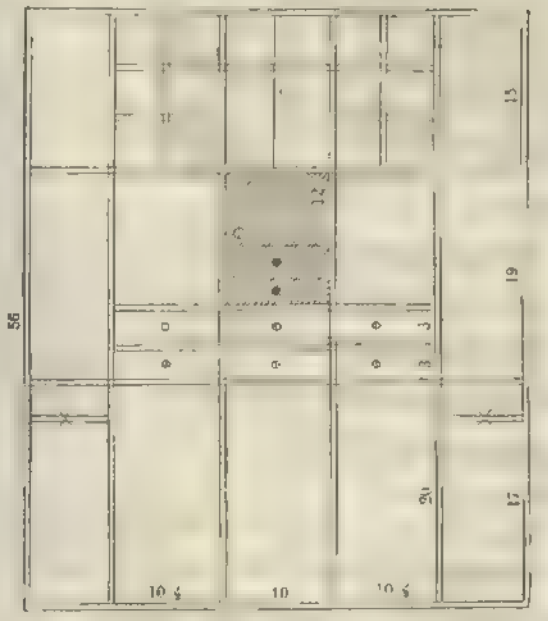
NOTE—Goods marked thus (*) are for factory shipment only.

# *ALPINE FIRE PROOF SAFES

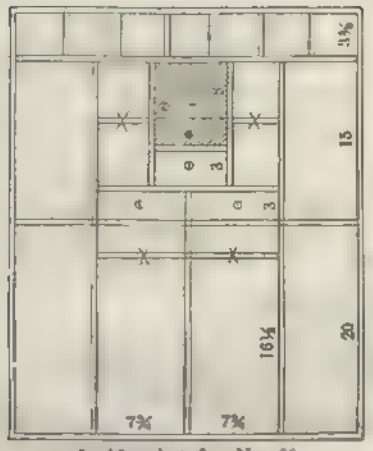
Name of Customer Will Be Lettered on Top Bar of Safe Free of Charge



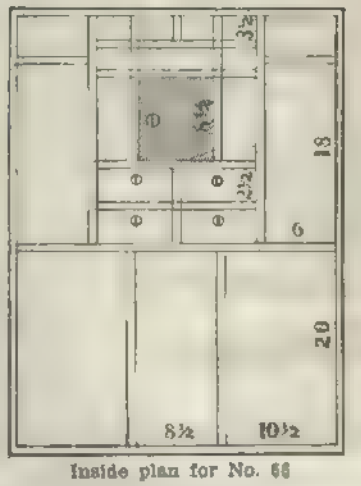
Nos. 65 to 68



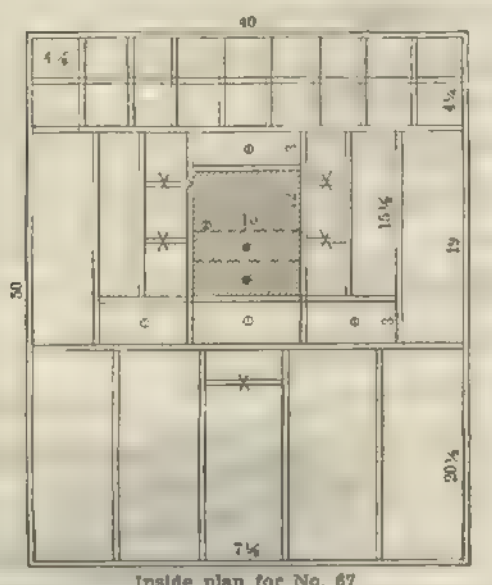
Inside plan for No. 68



Inside plan for No. 65



Inside plan for No. 66



Inside plan for No. 67

## DOUBLE FOLDING OUTSIDE DOORS, WITH DOUBLE FOLDING INSIDE DOORS

Combination or key lock on outside door, as ordered. Key lock on inside door.

| No. | Outside Measure | | | Inside Measure | | | Approximate Weight, Lbs. | Each | |
|---|---|---|---|---|---|---|---|---|---|
| | Height Inches | Width Inches | Depth Inches | Height Inches | Width Inches | Depth Inches | | | |
| 65 | 64½ | 42 | 31 | 43½ | 2[illegible]½ | 16 | 3850 | $370 00 | $259 00 |
| 66 | 61¾ | 45½ | 31 | 39½ | 31½ | 16¼ | 4000 | 380 00 | 266 00 |
| 67 | 72½ | 53½ | 32 | 50 | 40 | 17 | 5600 | 550 00 | 385 00 |
| 68 | 82 | 62 | 32 | 56 | 46 | 17 | 6800 | 700 00 | 490 00 |

NOTE—Goods marked thus (*) are for factory shipment only.

# 18 and 16 Size Elgin Movements

3320

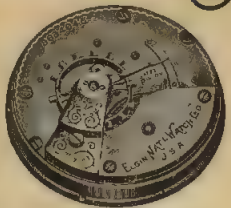
**No. 338 (Htg.) Lever Set, No. 336 (O. F.) Pendant Set, $17 30**

**18 Size, Nickel,** 17 Jewels (Settings), Exposed Pallets, Cut Expansion Balance, Breguet Hairspring, Micrometric Regulator, Sunk Second Dial, Dust Ring, Damaskeened Plates, Hunting, Lever Set, Open Face, Pendant Set.

3321

**Elgin National Watch Co.**
**No. 316 (Htg.) and No. 317 (O. F.) $14 65**

**18 Size, Nickel,** 15 Jewels (Settings), Compensating Balance, Breguet Hairspring, Oval Regulator, Nickel Index, Hunting, Lever Set, Open Face, Pendant Set.



3322

**Elgin National Watch Co.**
**No. 287 (Htg.) and No. 288 (O. F.) $11 30**

**18 Size, Nickel,** 7 Jewel, Compensating Balance, Breguet Hairspring, Oval Steel Regulator, Nickel Index, Damaskeened, Hunting, Lever Set, Open Face, Pendant Set.

3323

**Elgin National Watch Co.**
**No. 309 (Htg.) and No. 294 (O. F.) $10 00**

**18 Size, Gilt,** 7 Jewels, Exposed Pallets, Cut Expansion Balance, Breguet Hairspring, Polished Oval Steel Regulator, Sunk Second Dial, Dust Ring.

3324

**Elgin National Watch Co.**
**No. 196 (Htg.) and No. 183 (O. F.) $146 32**

**16 Size, Nickel,** 21 Extra Fine Red Ruby Jewels (Raised Gold Settings), Adjusted to Temperature, Isochronism and Positions, Quick Train with Gold Wheels, Straight Line Escapement with Steel Escape Wheel, Pallet Arbor and Escape Pinion Cone Pivoted and Cap Jeweled, Exposed Pallets, Compensating Balance, Breguet Hairspring, Micrometric Regulator, Display Winding Work, Patent Recoiling Click, Patent Self-Locking Setting Device, Double Sunk Glass Enameled Dial, Dust Ring, Beautifully Damaskeened Plates, Pendant Set.

3325

**Veritas** (O. F.) only **Lever Set, Nickel, $75 32**

**16 Size, 21** Diamond, Ruby and Sapphire Jewels (Gold Settings); Adjusted to Temperature, Isochronism and Five Positions, Double Roller Escapement with Steel Escape Wheel, Pallet Arbor and Escape Pinion Cone-Pivoted and Cap-Jeweled, Exposed Sapphire Pallet Stones, Compensating Balance with Pivots Running on Diamonds. Breguet Hairspring, Micrometric Regulator, Patent Safety Barrel with Spring Box Rigidly Mounted on Bridge, Exposed Winding Wheels, Patent Recoiling Click, Patent Self-Locking Setting Device, Double Sunk Glass Enamel Dial, Dust Ring, Engraving Inlaid with Gold, Damaskeened plates; Closely Timed and Finely Finished throughout.

3326

**Elgin National Watch Co.**
**No. 243 (Htg.) and No. 246 (O. F.) $58 66**

**16 Size, Nickel,** 17 Ruby Jewels (Gold Settings), Adjusted to Temperature, Isochronism and Positions, Quick Train with Gold Wheels, Straight Line Escapement with Steel Escape Wheel, Exposed Pallets, Compensating Balance, Breguet Hairspring, Micrometric Regulator, Double Sunk Glass Enameled Dial, Engraving Inlaid with Gold, Pendant Set.

3327

**Elgin National Watch Co.**
**No. 280 (O. F.) only Bridge Lever Set, $53 32**

**16 Size, Nickel,** 17 Ruby Jewels (Gold Settings), Adjusted to Temperature, Isochronism and Positions, Gold Center Wheel, Steel Escape Wheel, Micrometric Regulator, Display Winding Work, Patent Recoiling Click, Patent Self Locking Setting Device, Double Sunk Glass Enamel Dial, Engraving Inlaid with Gold, Closely Timed and Finely Finished Throughout

3328

**G. M. Wheeler** (Htg. and O. F.) **$36 00**

**16 Size, Nickel,** 17 Jewels (Settings), Adjusted to Temperature, Exposed Pallets, Compensating Balance, Breguet Hairspring, Micrometric Regulator, Display Winding Work, Double Sunk Dial, Damaskeened Plates.

**We'd Rather Lose Our Profit on an Article Than Not Have You Satisfied. Our Success Lies in Pleasing You in Every Sense of the Word.**

**"THE HOUSE OF QUALITY"**

# Elgin Watches

**Lord Elgin** **$108.00**
23 Jewels O. F.

**Lord Elgin** **$99.00**
21 Jewels Htg. O. F.

**Veritas 23 Jewels $54.00**
**Veritas 21 Jewels $50.90**
Open Face

**B. W. Raymond $45.00**
21 Jewels O. F.

*Lord Elgin movements Pendant Set; Veritas and B. W. Raymond movements Lever Set. List prices for movements only. For complete description of these, see the last pages of this insert.*

## Sixteen Size Movements

**Father Time $41.90**
21 Jewels Htg. O. F.

**B. W. Raymond $37.80**
19 Jewels Htg. O. F.

**B. W. Raymond $34.20**
17 Jewels O. F.

**G. M. Wheeler $24.30**
17 Jewels Htg. O. F.

*Father Time and B. W. Raymond Movements Lever Set; G. M. Wheeler Pendant Set. List prices for movements only. For complete description of these, see the last pages of this insert.*

*Sixteen Size Movements*

# Elgin Watches

381 Hunting $18.90
382 Open Face $18.90
17 Jewels Adj.

386 Hunting $17.10
387 Open Face $17.10
17 Jewels

312 Hunting $13.50
313 Open Face $13.50
15 Jewels

290 Hunting $8.50
291 Open Face $8.50
7 Jewels

*All the above movements are Pendant Set. List prices for movements only. For complete description of these, see the last pages of this insert. The price for 17 jewel adjusted, lever set, open face, three quarter plate movement for street car users, can be furnished on application.*

*Sixteen Size Movements*

# EMBLEM DISPLAYS, SOLID GOLD, ON PADS

NO CHARGE FOR PADS—YOU BUY THE GOODS—WE GIVE YOU THE PAD
ILLUSTRATIONS ACTUAL SIZE—PRICE PER PAD

ASSORTMENT A

Masonic Buttons
No. 3932 Assortment A $12.50

ASSORTMENT X

Masonic Pins
No. 3933 Assortment X $10.16

ASSORTMENT B

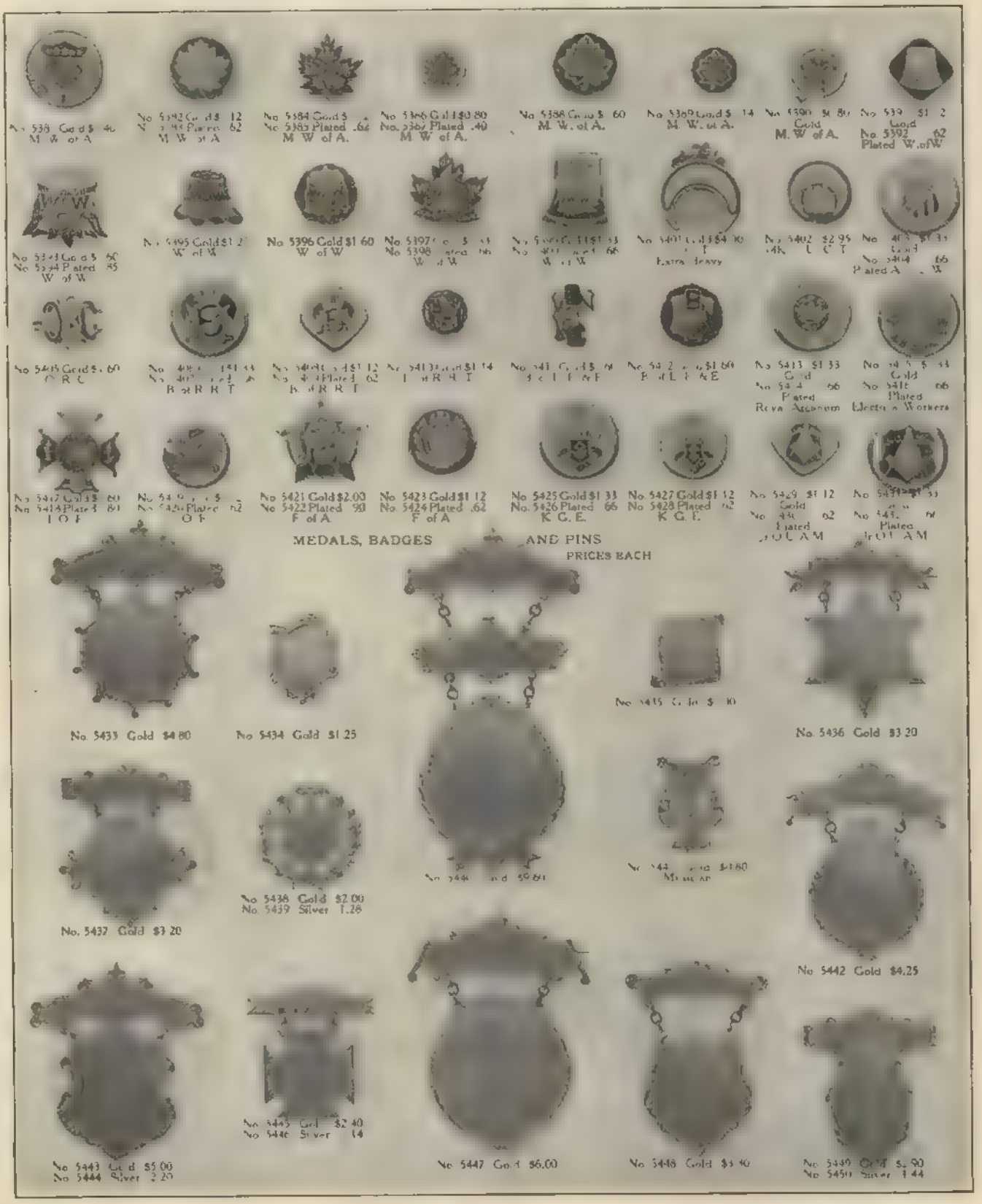
Odd Fellow Buttons
No. 3934 Assortment B $11.90

ASSORTMENT C

Knights of Pythias Buttons
No. 3935 Assortment C $11.48

# EMBLEM BUTTONS, BADGES AND PINS

ILLUSTRATIONS ACTUAL SIZE ENAMELED IN PROPER COLORS—PRICES EACH



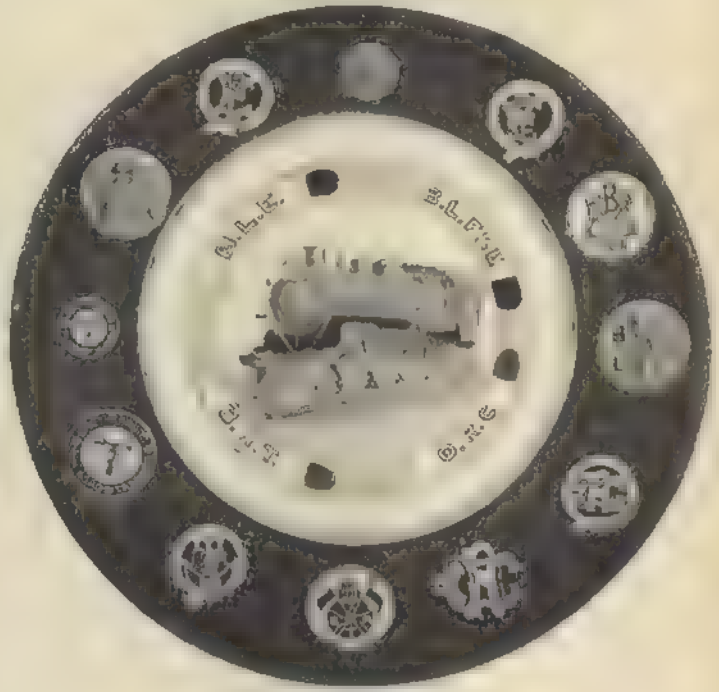
# EMBLEM DISPLAYS, SOLID GOLD, ON PADS

NO CHARGE FOR PADS—YOU BUY THE GOODS—WE GIVE YOU THE PAD
ILLUSTRATIONS ACTUAL SIZE—PRICES PER PAD

ASSORTMENT S

Red Men Buttons
No. 3936 Assortment S $10.00

ASSORTMENT R




Railroad Orders Buttons
No. 3937 Assortment R $12.00

ASSORTMENT E

Eastern Star Pins
No. 3938 Assortment E $10.20

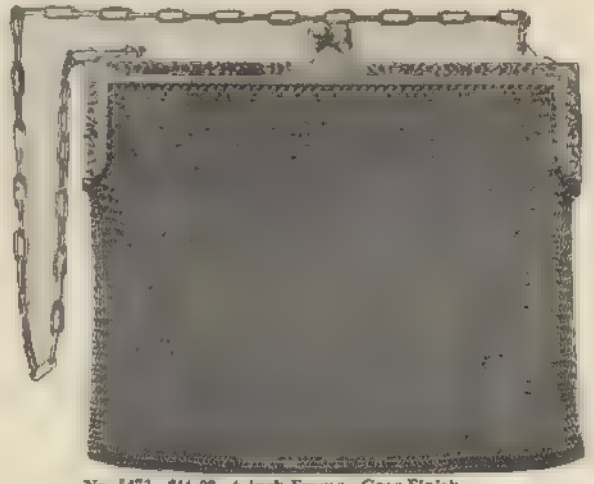
ASSORTMENT L

Woodmen of the World
No. 3939 Assortment L $9.75

# GERMAN SILVER, SILVER PLATED MESH BAGS AND PURSES

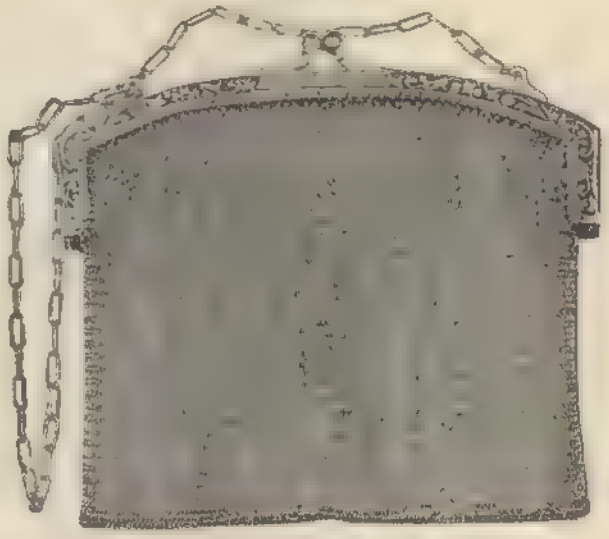
EVERY ONE OF THE BAGS SHOWN ON THIS PAGE ARE GUARANTEED ALL LINKS ARE SILVER SOLDERED
ILLUSTRATIONS ABOUT ONE-HALF ACTUAL SIZE—PRICES EACH

No. 5472 $13.50
Bracelet Ring Mesh Bag. This is one of the latest designs in Mesh Bags. Has a bracelet ring attached so it can be worn on the wrist.



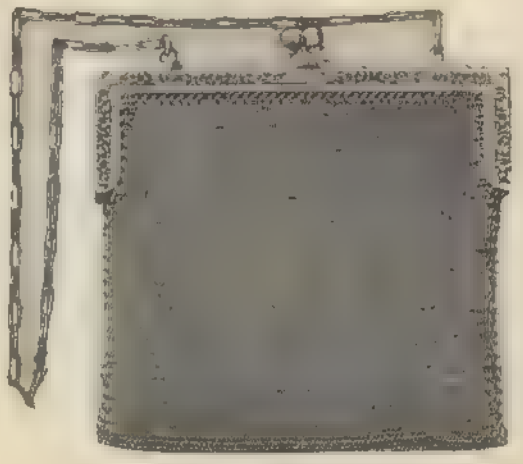
No. 5473 $16.00 6-inch Frame Gray Finish
No. 5473½ $19.00 7-inch Gray Finish
Can also be had Plain Frames

No. 5474 $11.00 Draw String Mesh Bag Size, open, 5x5 inches



No. 5475 $16.00 6-inch Frame Gray Finish

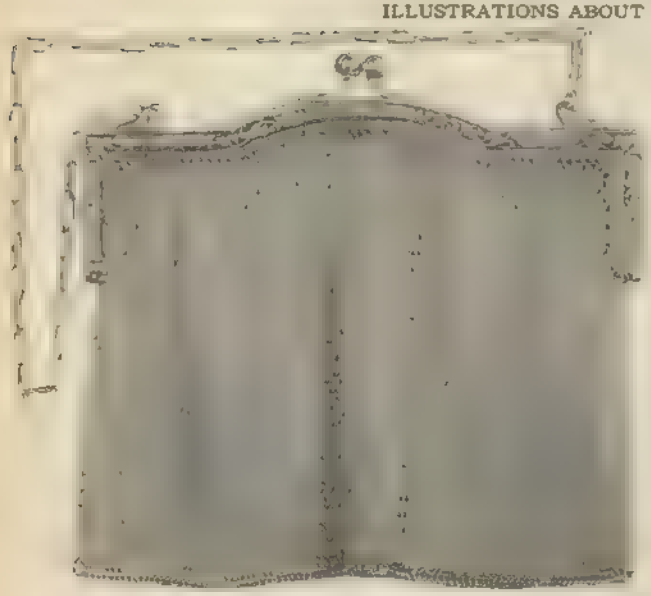
No. 5476 $12.00 4½-inch Frame Gray Finish
Can also be had Plain Frames



No. 5477 $13.50 5-inch Frame Gray Finish
Can also be had Plain Frames

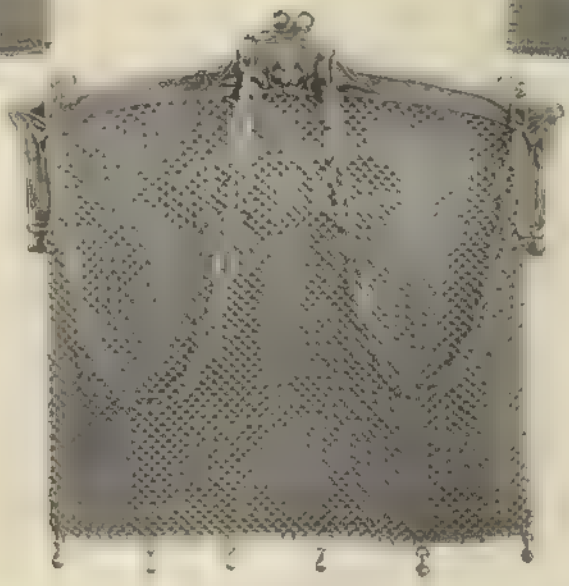
# GERMAN SILVER, SILVER PLATED MESH BAGS

EVERY ONE OF THE BAGS SHOWN ON THIS PAGE ARE GUARANTEED
ILLUSTRATIONS ABOUT ONE-HALF ACTUAL SIZE –PRICES EACH



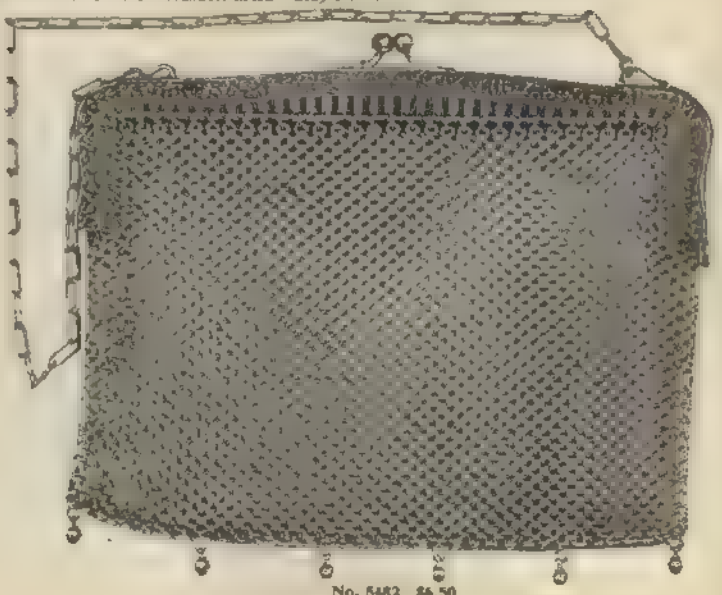
No. 5478 6-inch Frame $13.00
No. 5478 7 S-inch Frame $11 00
Coarse Mesh Silver Soldered Links

No. 5479 $11 00
4-inch Frame Oxidized Gray Finish
Silver Soldered Links



No. 5480 $10 00
With Holder for 5, 10 and 25 Cent Coins
4-inch Frame Fine Unbreakable Mesh Gray Finish

No. 5481 $10.50
7½-inch Frame Fine Unbreakable Mesh Gray Finish



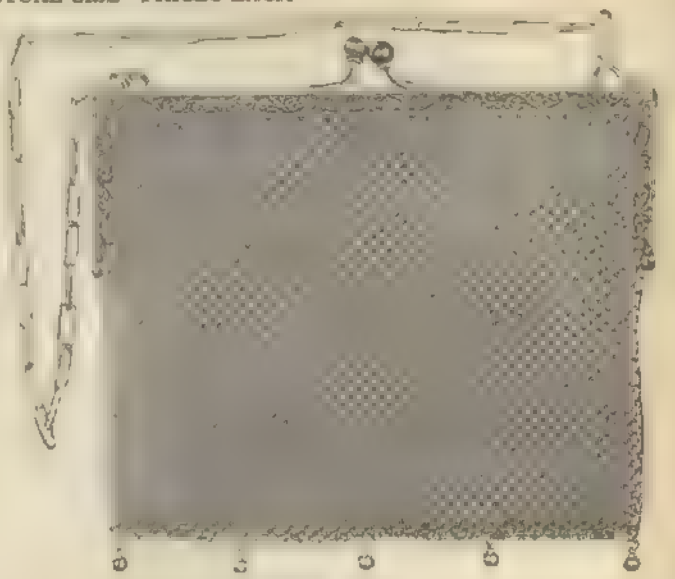
No. 5482 $6.50
7-inch Frame Unbreakable Mesh Bright Finish

# GERMAN SILVER, SILVER PLATED AND GUN METAL MESH BAGS

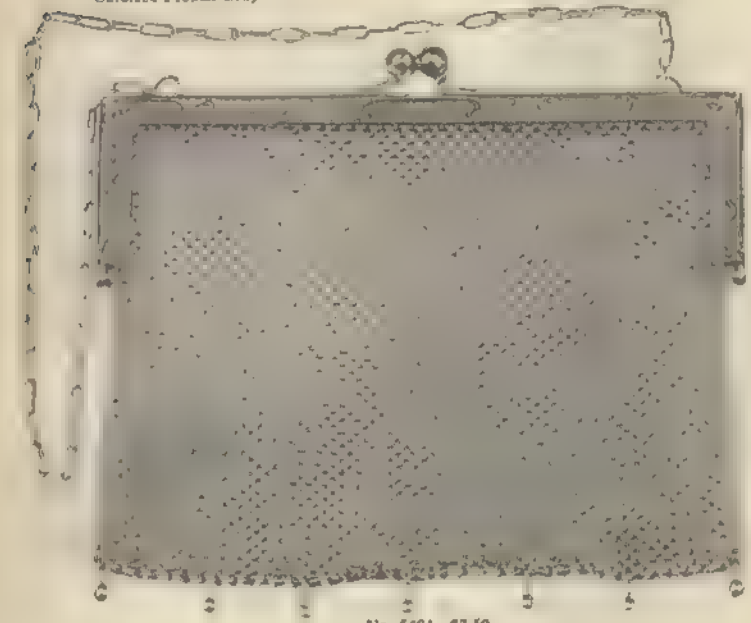
EVERY ONE OF THE BAGS SHOWN ON THIS PAGE ARE GUARANTEED
ILLUSTRATIONS ABOUT ONE-HALF ACTUAL SIZE—PRICES EACH

No. 5483 $4.50
Purse 2 inches long
German Silver Silver Plated
Soldered Links
Oxidized French Gray Finish

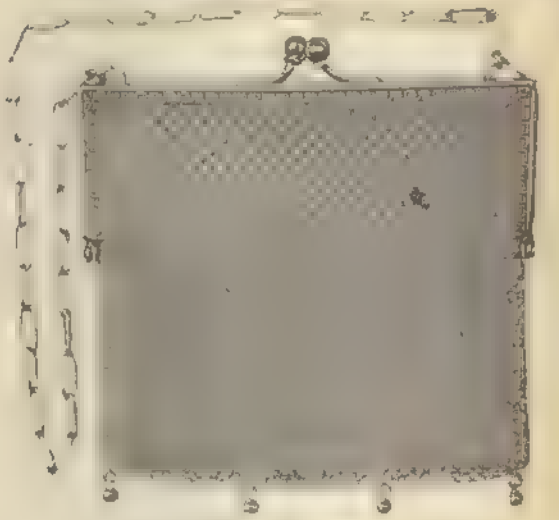
No. 5485 $1.00
Larger Size, $1.25
Drawstring Bag
German Silver Silver Plated
Light, Close Mesh



No. 5486 $5.50
German Silver, Silver Plated
Unbreakable Mesh
6-inch Frame Bright Finish

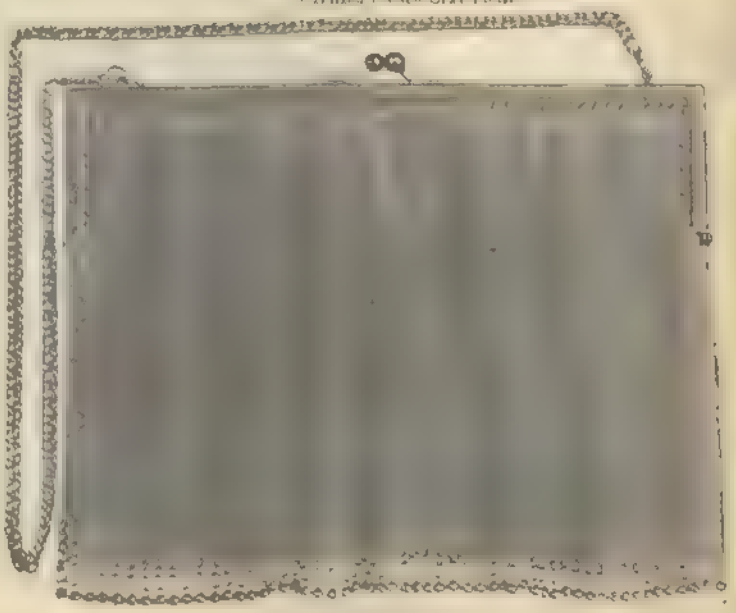


No. 5484 $7.50
German Silver Silver Plated Unbreakable
7-inch Frame Bright Finish



No. 5487 $4.50
German Silver, Silver Plated
Unbreakable Mesh 5-inch Frame
Oxidized French Gray Finish

No. 5489 $3.50
With Bracelet Ring
Bag 5 inches long
Ring 2 inches
Oxidized
Open Links



No. 5488 $10.00
Real Gun Metal 7-inch Frame
No. 5488½ Gilt Finish $8.50

# MOTORCYCLE LAMPS

## SOLAR GRANDAD

[illegible] Model [illegible] Motorcycles, Especially Made for the Modern Type of Motorcycle Front Fork, 6¼ inches in Depth. Fitted with 6-inch Special Short Focus Lead Glass Lens Mirror Reflector which with Front Aluminum Reflector Provides Two Necessary Fields of Light. Has Nickel Plated Rim and Bezel, Nickel Plated Mirror and Front Reflector and Copper Vertical Fork Brackets 7 inches between Centers. To be Supplied with Glass for Tank.

| | Each |
|---|---|
| †No. 1236 Nickel Plated; Weight [illegible] lbs | $10.50 |

One in a Box

## SOLAR HEADLIGHT

## SOLAR DAD

This Model is a New Design, Is as Large in Size as Necessary, and Completely Equipped Motorcycle Model Front Headlight. The Shell and Parts are Made of One Piece Heavy Gauge Metal, the Front Glass and Aluminum Reflector are Held by a Spring Wire Spring, Front Glass Door, Is Hinged and Can be Opened Lower at their Ratchet Fitted with 5-inch Solar Short Focus Mirror and Lens Assembly Reflectors Produce the Two Necessary Fields of Light. Has 1½-inch Ruby Jewel on each Side, the Right Side having Hinge and Catch for Lighting; ⅜-foot Tip and Props for Horizontal Fork Brackets 4 inches Between Centers.

| | Each |
|---|---|
| †No. 195—Nickel Plated; Weight 3¼ lbs | 7.50 |

One in a Box

## SOLAR SONNY

Solar Designation Model 194 [illegible] Is [illegible] Depth [illegible] Side of Body. Has Lens Mirror Reflector and Front Aluminum Reflector, which Provide the Two Necessary Fields of Light. Model 194 for Flat Brackets which Fit in a Casting Concealed Inside the Back of Body. No. 194P with Props on Either Side at Bottom of Body for Horizontal Fork Brackets, 2½ inch Centers.

| | Each |
|---|---|
| No. 194—Nickel Plated, for Flat Brackets | $6 00 |
| †No. 194P—Nickel Plated; for Fork Brackets | 6.00 |

One in a Box Weight 3 lbs.

## SOLAR GENERATOR

The Combined Generator and Headlight for Motorcycles is a "Big Brother" of the Famous Solar Cycle Lamp. Made Entirely of Brass Full Nickel Plated and Polished, with Removable Silver Finished Reflector. The Reflector is set at an Angle, thus Combining the Head Light Features in a Tail Lamp. Has Two Props for Special Fork Brackets, 2¼ inches Between Centers. The Famous Solar Gas Generator, with an Adjustable Needle Valve gives a Perfect Control of Water Feed. Carbide Capacity 8 ounces and Burns 8 Hours, with ⅝-foot Tip.

| | Each |
|---|---|
| †No. 4GH Nickel Plated [illegible] Weight [illegible] | $11 30 |
| †No. 4GHV Nickel Plated [illegible] Weight [illegible] | 12 00 |

One in a Box

# TAIL LIGHTS

## SOLAR

## GAS

Length 3 inches; Height 3 inches with 2½-inch Rear Ruby Semaphore; Complete with Adjustable Bracket to Fasten on Rear Wheel Mud Guard. Has ⅛-foot Single Jet Tip.

| | Each |
|---|---|
| †No. 102G—Nickel Plated; Complete with Bracket; Weight 1 lb. | $2 30 |

One in a Box

## ELECTRIC

Length 3 inches; Height 3 inches, with 2½-inch Rear Ruby Semaphore; Complete with 1 C. P. 2 Volt Tungsten Bulb; with Adjustable Bracket to Fasten on Rear Wheel Mud Guard.

| | Each |
|---|---|
| †No. 102E—Nickel Plated; Complete with Bracket; Weight about 1 lb. | $3 00 |

One in a Box

Items Marked † Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

# AUTOMOBILE LAMPS

### GAUGE LAMP
**Without Bulb**

Each

No. 51E Nickel Plated Metal Parts, Wired Complete with Ed Swan Socket. But Without Bulb, Weight 8 ozs.... **$1 40**

### SPEEDOMETER LAMP
**Without Bulb**

Each

No. 57E—Nickel Plated Metal Parts Wired Complete with Ed Swan Socket. But Without Bulb, Weight 7 ozs. **$2 00**

### GAUGE LAMP
**Without Bulb**

Each

No. 54E—Nickel Plated Metal Parts, Lenses on Arms Will Not Come Out with Ed Swan Socket. But Without Bulb, Weight 10 ozs. **$1.70**

### DOME LAMP
**Without Bulb**

Nickel Plated Metal Parts; Holophane Glass Globe Wired Complete with Ed Swan Socket. But Without Bulb

Each

No. 6013 3 inch Glass, Weight 10 ozs. **$3.00**

No. 6014—4 inch Glass; Weight 12 ozs. **3.30**

### CANOPY LAMP
**Without Bulb**

Metal Parts Nickel Plated, Wired Complete with Ed Swan Socket. But Without Bulb

Each

No. 50—Weight 10 ozs. **$2.20**

## TROUBLE LAMPS

### POMO

This is the Neatest, Best Looking and most Serviceable Trouble Lamp on the Market. Hangs from your Button Hole, your Hat or Car Dash. Goes inside your Motor or any old place around the Car. Can be carried in the Coat Pocket.

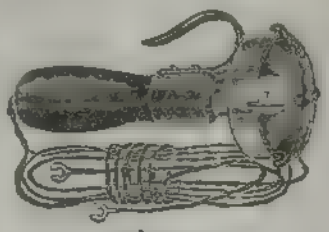
Each

No. PTL—Complete with 6 Volt 4CP Candelabra Base Bulb; 12 Feet of Lamp Cord with Edi-Swan Connector attached; packed in a Green Plush Bag; Weight 8 ozs. **$3.30**

This is a Good Lamp at a Low Price; Wired Ready for Use with Eye Dominal Connection.

**Complete with Candelabra Bulb.** Each

No. 171C—Weight 8 ozs.. **$1.10**



### EVER READY

For Use Around Automobile Garage, etc.; Comes Equipped with 6 Volt Mazda Bulb and 12 Feet of Cord; Clips at End of Cord for Making Quick Connections.

Each

No. ETL—Weight 1 lb. **$2 20**

One in a Box

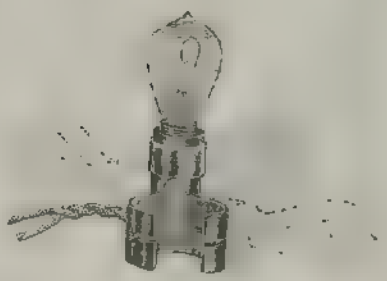
### STICKALITE MAGNETIC

The Stickalite is a Small Lamp with Magnet in End which Causes the Lamp to Stick to Any Metal Part of the Car when the Current is Turned On. Comes Complete with 10 feet of Cord; Edi-Swan Connector, Bulb and Bulb Protector; Fits in any Light or Socket Each

Stickalite—Weight 5 ozs. **$1 60**

## LAMP ATTACHMENTS

For Converting Oil and Gas Lamps into Electric Lamps.
**Price Does Not Include Bulbs**



### FOR OIL LAMPS

Made of Brass; Folds Down and Locks in a Horizontal Position When Use of Oil Lamp is Desired. Fits on Outside of burner Cap; Furnished with Fibre Socket, Wired and Equipped for Standard Candelabra Base Bulbs.

Per Dozen

No. OLA—Weight 1 oz. **$5.80**

Loose

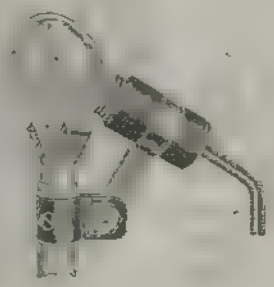
### FOR GAS LAMPS

Made of Brass, Nickel Plated; Fits on Post of Gas Burner with Adjustable Bolt; can be Instantly Shifted in or Out of Position; Furnished with Fibre Socket Wired and Equipped for Standard Candelabra Base Bulbs.

Per Dozen

No. GLA—Weight 1 oz. **$5 80**

Loose



## LAMP COVERS

### FOR HEADLIGHTS

Made of Waterproof Rubber Drill, will Fit all Head Lights and Protect from the Weather. Per Doz.

No. 1LC For Lamps with 6 to 8 inch Glass . **$13 20**

No. 2LC—For Lamps with 8 to 10 inch Glass . **13 20**

No. 3LC—For Lamps with 10 to 12 inch Glass. **13 20**

Two in a Box; Weight per Box 1 lb.

### FOR SIDE AND TAIL LIGHTS

Made of Waterproof Rubber Drill

Per Dozen

No. 4LC For Lamps up to 7 2 Inches High **$8 80**

No. 5LC For Lamps 7 2 to 8 Inches High **8 80**

No. 6LC For Lamps 8 to 10 Inches High **8 80**

Two in a Box, Weight per Box 1 lb.

## LAMP BRACKETS

### ADJUSTABLE

Can be Fitted to all Cars with Overhanging Frame in Front by Bolting On Side; Adjustable to Fit any Width Lamp from 7 3/8 to 8 3/8 inches Between Centers. Made of Drop Forged Steel.

Each

No. 2084A—With 1 1/8 in. Post, Weight 2 1/2 lbs. Loose **$1 35**

### HEADLIGHT

Drop Forged Steel; Arm can be Forged into any Shape or Size Desired or Welded to Other Attachments.

Each

No. 7 1/8—7 1/4 inch Centers; Wt. about 3 lbs. **$1 65**

No. 8 1/8—8 1/4 inch Centers; Wt. about 3 lbs. **1.65**

Loose

### TAIL

Each

No. 11—Solid Cast Brass, Highly Polished; Weight 1/2 lb. **$0 90**

Loose

# MOTORCYCLE LAMPS

## OLD SOL—WITHOUT GENERATORS

The Sloping Rounded Hood and Well Proportioned Body Give a Very Pleasing and Symmetrical Appearance. Finely Nickel Plated [illegible] Opal [illegible] Slot in Bottom of Lamp Permits Ob[illegible] Mounting of Burner [illegible] Prevents Rattling. Strong Construction [illegible]

### WITH SIDE SOCKET

| | Each |
|---|---|
| No. 1—Without Brackets, Diameter of Door [illegible], Diameter of Mirror Lens 4 inches; Depth of Body [illegible]; Weight each 2 lbs. | $6 00 |

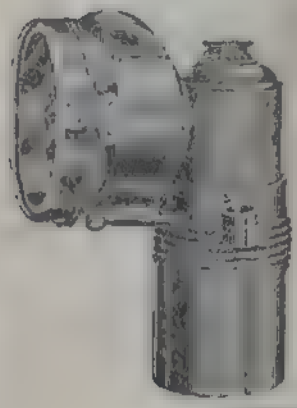
One in a Carton

These Models are Designed for More Efficient Lighting Service During Long Rides, Touring and Night Endurance Runs. The Most Intense and Greatest Candle Power Lamps Made for Motorcycles. Equipped with Ball Pin Hinges, Special German Lava Burners, Adjustable Tip, Heavy Door Fastening Device and Specially Ground Mirror Lenses; Bodies are Made of Heavy Gauge Brass Drawn from One Piece of Metal and Door Frames of Special Beaded Construction to Give Them Strength.

### WITH SIDE SOCKET

| | Each |
|---|---|
| **No. 17—Without Brackets; 1,000 Candle Power;** Diameter of Door 7 inches; Diameter of Lens 5 inches; Depth of Body 6 inches; Weight each 3 lbs. | $8 50 |
| **No. B17—**Extra Bezels or Front Door Glasses for No. 17 Lamp | 90 |

| | Each |
|---|---|
| **No. 8—Without Brackets; 1,500 Candle Power;** Diameter of Door 8 inches; Diameter of Mirror Lens 6 inches; Depth of Body about 6½ inches; Weight each 4 lbs. | $10 50 |



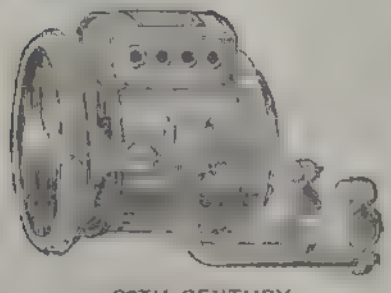
### WITH ATTACHED GENERATORS

Made of Heavy Nickel Plated Brass. These Self Generating Lamps are built for Motorcycle use and burn better and stronger than any Bicycle Lamp. Will burn about 7 Hours on One Charge of Carbide and furnish a Light of about 100 Candle Power.

### FOR SIDE GENERATORS

| | Each |
|---|---|
| **No. 8—Without Brackets;** Height Over All 7 inches; Diameter of Door 4 inches; Diameter of Reflector 3 inches; Carbide Capacity 6 ozs.; Distance from Center of Bracket Clamps to Front of Lamps 8½ inches; Weight each, Complete 2 lbs. | $4 [illegible] |

One in a Carton



**Cut Shows Lamp With Set of No. 14¾ Brackets Attached**

### 20TH CENTURY

Constructed of Heavy Gauge Brass, Riveted Throughout, Equipped with [illegible] Lamps Have Extra Heavy Motorcycle Lamp Cord at the Main [illegible] Bent to Position.

Nickel Plated, Diameter of Body 4 inches, Diameter of Door 5 inches; Depth of Lamp 5½ inches; Capacity of Tip ⅜ feet.

| | Each |
|---|---|
| No. 102—Lamp Only; Weight 2¼ lbs. | $7 25 |
| No. 1002—Lamp with No. 10 Generator, No. 14¾ and No. B10 Brackets and Hose Complete; Weight 8⅝ lbs. | 15 40 |

Lamps, One in a Box; Lamp Brackets, Loose; Generator and Brackets Complete in a Box

### FAIRY TAIL LAMP

Made of One Piece Metal, Strongly Constructed; No Parts to Become Lost. Attached With Clip. The Parts of the Lamp Are Nickel Plated Brass Except Steel, Brass Parts Oxidized. Interchangeable by Unscrewing to Right at the Base of the Lamp, Wrench being required to Loosen the Tip.

| | Each |
|---|---|
| **Fairy—**Has Two 14-inch Cord Sets, One White and One Red; Height Over All 10 inches, Weight 3 ozs. | $2 00 |

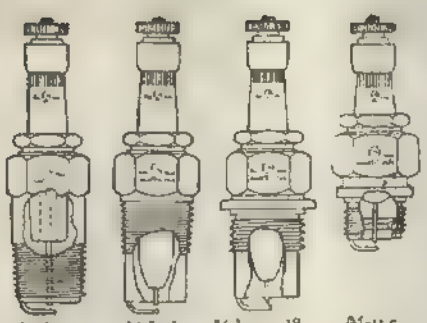
One in a Box

Items Marked † Not Carried in Stock; Can Only Be Furnished by Shipping Direct From Factory, Bridgeport, Conn.

# SPARK PLUGS

## RED HEAD

Spark Plugs are made in three regular sizes ½ inch Standard, Metric and A. L. A. M. The ½ inch Standard will fit the same size hole as a Standard ½-inch pipe; it is ⅝ inch in diameter and has 14 threads to the inch, and is the size most commonly used. The Metric size is used on most motorcycles and some automobiles, and is ⅞ inch in diameter and has 17 threads to the inch. The A. L. A. M. plug is ⅞ inch in diameter and has 18 threads to the inch. It is the size adopted as standard by the American Licensed Automobile Manufacturers. Always specify when ordering



½ Inch Style B — No. M427F
½ Inch Style C — No. M427O
½ Inch Style D — No. M427B
Metric Style D — No. M427

No. M428F

No. M429

### REGULAR

The proven master of any motor up to 40 horse power. Where there are no extraordinary engine conditions to contend with and where the magneto is the average high tension, meteor wire electrode will spark continuously and will not burn away. The roomy firing chamber guards against short circuits from carbonization, making it a popular plug with owners of Ford, Reo, Regal, Hupmobile and other popular priced cars

The Red Head Spark Plug is composed of three parts, shell, bushing and electrode; by unscrewing the bushing the electrode may be taken out for cleaning without removing the shell from the cylinder; the porcelain is guaranteed not to crack from heat.

| | Each |
|---|---|
| No. M427—½-inch Standard, Metric or A. L. A. M.; weight 4 oz. | $ 0.80 |
| No. M427F—For Ford cars; weight 4 oz. | .80 |
| No. M427M—For Maxwell cars; weight 4 oz | .80 |
| No. M427O—For Overland cars; weight 4 oz | .80 |
| No. M427B—For Buick cars; weight 4 oz. | .80 |
| No. M427R—For Reo cars; weight 4 oz. | .80 |
| No. M427P—Extra porcelain for No. M427 | .50 |
| No. M427PL—Long porcelains for No. M427 long spark plugs | .50 |

### PRIMING

Starts engine instantly, gasoline is introduced through the cup, passes down the canal in the shell, over the porcelain and drips directly to the sparkling points, where it vaporizes and is ignited, these plugs can be cleaned without removing them from the cylinders, open the petcock while engine is running, the compression forces out the carbon. The electrode and firing pin are of highest quality meteor wire; porcelain is guaranteed not to crack from heat, the shell is cut from one piece of steel, polished and nickeled; all other metal parts are brass

| | Each |
|---|---|
| No. M428—½-inch Standard or A. L. A. M.; weight 6 oz. | $ 1.50 |

### COMBINATION

In this plug are incorporated the best features of the two standard insulating bodies, porcelain and mica. The central electrode is insulated with the best heat resisting porcelain in the explosion chamber, the upper part of the electrode is encased in a rolled tube of sheet mica, with hundreds of India amber mica washers compressed into an integral mass, there is no porcelain exposed to be accidentally broken by a blow from a tool, brass terminal, shell and bushing have polished nickel finish and are extra large, easy to manipulate with any wrench

| | Each |
|---|---|
| No. M429—½ inch Standard or A. L. A. M.; weight 6 oz. | $ 1.30 |

All above packed one in box.

# SPARK PLUGS

Spark Plugs are made in three regular sizes; ½-inch standard, Metric and A. L. A. M. The ½ inch standard will fit the same size hole as a standard ½-inch pipe, it is ⅞ inch in diameter and has 14 threads to the inch, and is the size most commonly used. The Metric size is used on most motorcycles and some automobiles and is ⅞ inch in diameter and has 17 threads to the inch. The A. L. A. M. plug is ⅞ inch in diameter and has 18 threads to the inch. It is the size adopted as standard by the American Licensed Automobile Manufacturers. Always specify sizes when ordering.

No. M407

No. M409

No. M400

No. M405X

No. M405

No. M402

No. M402O

No. M402B

## QUICK ACTION

Porcelain core is of the petticoat design, giving the greatest possible insulation for the solid electrode passing through the center; a vulcabestos washer between shoulder of electrode and porcelain makes a gastight joint; nickel alloy firing pin; hexagon steel shell; brass bushing, cap and thumb nut.

| | Each |
|---|---|
| No. M407—½-inch Standard or A. L. A. M.; weight 3½ oz. | $ 0.36 |
| Dozen lots | 4.00 |

## ELECTRIC CITY

The Electric City Spark Plug is so equipped that the chance of leakage or loosening of terminals is reduced to a minimum; it has finest quality porcelain, carefully annealed and is one of the most easily cleaned plugs manufactured, being made on the same general principles as the Rajah; the porcelains of the two plugs are interchangeable.

| | Each |
|---|---|
| No. M409 —½-inch Standard, Metric or A. L. A. M.; weight 3½ oz. | $ 0.40 |
| No. M409P—Extra porcelains for No. M409 | .35 |

## SOOT-PROOF

The Soot-Proof spark plug was the first carbon and oil-proof plug on the market; guaranteed to give satisfaction. The insulator is made of hand turned porcelain; has substantial nickel spark points, so constructed that the parts can be replaced and repairs made without special knowledge or tools.

| | Each |
|---|---|
| No. M400 —Soot Proof spark plug; size ½ inch Standard, Metric and A. L. A. M., weight 3½ oz. | $ 0.70 |
| No. M400O—For Overland cars; weight 3½ oz. | .70 |
| No. M400B—For Buick cars; weight 3½ oz. | .70 |
| No. M400P—Extra porcelains for No. M400 | .86 |

## CHAMPION X

Champion X spark plug is made for Ford and Reo cars; adopted by those factories; will not foul or soot up; also an excellent plug for Maxwell, E. M. F., Buick, Flanders and Regal cars.

| | Each |
|---|---|
| No. M405X—½-inch Standard, Metric or A. L. A. M.; weight 3 oz. | $ 0.74 |
| No. M405XO—For Overland cars; weight 3 oz. | .74 |
| No. M405XB—For Buick cars; weight 3 oz. | .74 |
| No. M405XP—Extra porcelains for No. M405X | .40 |

## CHAMPION

The Champion spark plug is of the best workmanship and soot-proof; body of plug is steel and bushing is brass, every plug is carefully tested by special process, giving it a fine black finish and rendering it rust-proof, sizes ½-inch Standard, Metric and A. L. A. M.

| | Each |
|---|---|
| No. M405 —Champion spark plugs, weight 4 oz. | $ 0 84 |
| No. M405P—Extra porcelains | .48 |
| No. M405X—American porcelains for Champion and A. C. plugs | .40 |

## A. C.

This Spark Plug will not leak or soot; will throttle an engine lower down than any other plug, is for magneto or battery use.

| | Each |
|---|---|
| No. M402—½-inch Standard, Metric or A. L. A. M., weight 3½ oz. | $ 1.00 |
| No. M402O—For Overland cars; ½-inch extension plug; weight 3½ oz. | 1.00 |
| No. M402B—For Buick cars; ⅞-inch extension plug; weight 4 oz. | 1.00 |
| No. M402P—Extra porcelains, for No. M402 | .50 |
| No. 402PL—Extra porcelains, for long spark plugs | .50 |

**All above packed, one in cardboard box.**

# SPARK PLUGS

Spark Plugs are made in three regular sizes, ½ inch Standard, Metric and A. L. A. M. The ½ inch Standard will fit the same size hole as a Standard ½ inch pipe. It is ⅞ inch in diameter and has 14 threads to the inch, and is the size most commonly used. The Metric size is used on most motorcycles and some automobiles and is ¾ inch in diameter and has 17 threads to the inch. The A. L. A. M. plug is ⅞ inch in diameter and has 18 threads to the inch. It is the size adopted as standard by the American Licensed Automobile Manufacturers. Always specify sizes when ordering.

No. M403

No. M416

No. M404

No. M410

No. M438

### MONARCH MICA

Monarch Mica Spark Plug has a core twice the thickness of the ordinary plug so that the heat and extreme high tension of a magneto has no ill effect upon it, insuring a spark in the cylinder as long as the generator plant continues to deliver it, made especially for high-power cars.

| | Each |
|---|---|
| No. M403—½-inch Standard, Metric or A. L. A. M.; weight 8½ oz. | $ 0.90 |

### SPLITDORF

The Splitdorf plug differs radically from any other on the market, the insulation being a combination of porcelain and mica. The central electrode, which is tapered in form, is first wrapped in an insulation of sheet mica; this is then set in the center member of the plug base, the part which projects above the base is given another mica insulation and the whole is inserted in a porcelain outer covering.

| | Each |
|---|---|
| No. M416—½-inch Standard or Metric; weight 4 oz. | $ 1.20 |
| No. M416—⅞-inch A. L. A. M.; weight 4 oz. | 1.20 |

### CHAMPION PRIMING

Starts any motor any time; open the needle valve and gasoline will flow down to plug base, explosion will follow every time on first quarter turn of starting crank regardless of weather conditions.

| | Each |
|---|---|
| No. M404—½-inch Standard and A. L. A. M.; weight 5 oz. | $ 1.30 |

### RAJAH

The Rajah Spark Plug is one of the oldest and best known on the market, so equipped that the chance of leakage or loosening of terminals is reduced to a minimum; it has a strong imported porcelain carefully annealed, it is one of the most easily cleaned plugs manufactured and is fitted with an instantaneous snap terminal that is a decided improvement.

| | Each |
|---|---|
| No. M410—Rajah spark plugs; Standard, Metric and A. L. A. M. sizes; weight 4 oz. | $ 1.50 |
| No. M410P—Extra porcelain for No. M410; imported | .75 |
| No. M410X—American porcelain for No. M410 | .40 |

All the above packed, one in cardboard box.

### BLITZ

Solid nickel silver central electrode, a sheet of pressed mica is wound laterally around the electrode, then completely encased in porcelain; this protects the mica from absorbing oil, thus preventing short circuits; extra large firing points; blue porcelain jackets protects the core against moisture and breakage, insuring a perfect spark at all times; brass bushings, solid steel shell; copper and asbestos gasket.

| | Each |
|---|---|
| No. M438—½-inch Standard, Metric and A. L. A. M.; weight 4 oz. | $ 1.50 |
| No. M438O—For Overland cars; weight 4 oz. | 1.50 |
| No. M438B—For Buick cars; weight 4 oz. | 1.50 |

## SPARK PLUG BRUSHES

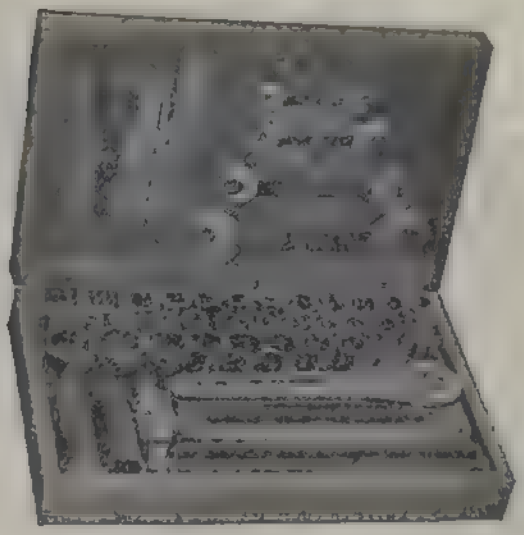
The Pres-Co Spark Plug Brush is made of strong wire for grease and dirt, a tuft of bristle for finer parts and two well tempered thin flat steels to reach the otherwise inaccessible parts of the plug, nicely fitted in the handle. There are other uses for it, such as cleaning chains, removing grease and dirt from parts, etc., which work heretofore has been done with a knife.

| | Doz |
|---|---|
| No. M430—Pres-Co Spark Plug Brush; weight per dozen 1¾ lbs. | $ 3.00 |

Packed, one dozen in cardboard box

# SOCKET WRENCHES

## MOSSBERG



It is the Latest and Most Complete Socket Wrench Set on the Market.

Handles for Every Kind of Difficult Approach. Sockets to Fit Every Possible Size Between 5/16 and 1 3/8.

The Set Consists of: 1 Mossberg Ratchet Wrench No. 350, and Extension Bar; 1 Mossberg No. 340 Take-Down Handle and Extension Bar; 1 Mossberg No. 320 Offset Socket Wrench, 1 Pipe Wrench; 1 No. 1 General Service Set—Double End Wrenches, Extra Finished; 1 Universal Joint, 3 Special Spark Plug Sockets, Sizes 25/32, 1 1/32, 1 1/16; 3 Sizes Screw Driver Bits; 1 Cotter Pin Extractor No. 1; 23 Sizes, Properly Hardened and Mottled Finish, Press Steel HEX Sockets; 11 Sizes Properly Hardened and Mottled Finish, Pressed Steel Square Sockets.

Per Set

**No. 14**—In a Wooden Case; With 34 Sizes of Pressed Steel Sockets; Weight per Set 14 lbs. ..... **$17 60**

### AUTO CLE—LARGE SIZE

The Large Auto Cle Set Consists of the Following: 1 Take Down Reversible Ratchet Handle, Nickel Plated; 1 Swivel or Universal Joint Which Permits Using the Wrench at any Angle; 1 9½-inch Extension Bar; 1 1¼ inch Extension Bar; 2 Sizes of Screw Driver Bits; 31 Sizes of Pressed Steel Sockets, Mottled Finish.

Sizes of Pressed Steel Sockets Furnished

**Hexagon**

5/16 inch, 11/32 inch, 3/8 inch, 13/32 inch, 7/16 inch, 15/32 inch, 1/2 inch, 17/32 inch, 9/16 inch, 19/32 inch, 5/8 inch, 21/32 inch, 11/16 inch, 23/32 inch, 3/4 inch, 25/32 inch, 13/16 inch, 27/32 inch, 7/8 inch, 29/32 inch, 15/16 inch, 31/32 inch, 1 inch, 1 1/32 inch, 1 1/16 inch, 1 3/32 inch, 1 1/8 inch, 1 5/32 inch.

Special Spark Plug Socket 25/32 inch Hexagon, 4 inch long.

**Square**

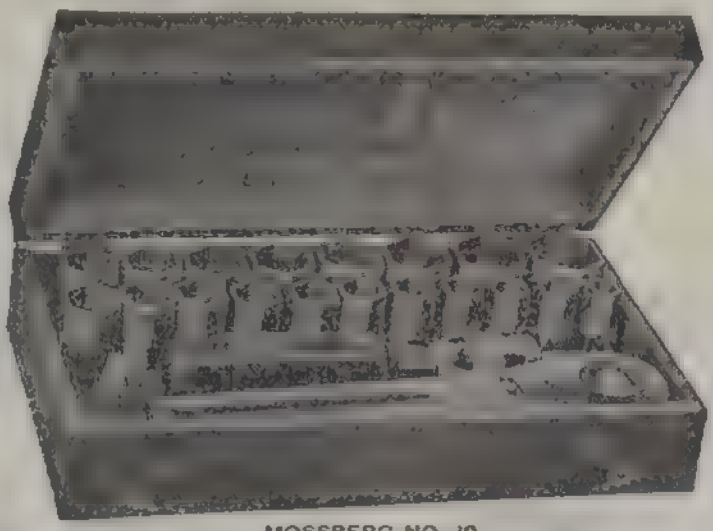
13/32 inch, 17/32 inch, 21/32 inch

These Sockets will Fit All Set Screws, Bolts and Nuts in General Use on Automobiles Whether of American or Foreign Manufacture.

The Above Parts and Sockets are Contained in a Compact Hardwood Case Fitted with Pegs on Which to Place the Sockets, thus Making Loss of Parts Unlikely and Preventing Rattle or Noise

Per Set

**No. LAC**—In a Wooden Case with 31 Sizes of Pressed Steel Sockets; Weight per Set 12 lbs. ..... **$15.00**



### MOSSBERG NO. 10

For Use in Automobile Repair and Garage Equipment. In Wooden Case Containing: Mossberg Ratchet Handle No. 350; 1 Extension Bar; 1 Universal Joint; 2 Screw Driver Bits; 19 Mottled, Case Hardened, Pressed Steel Sockets, as follows:

| Hex. | Bolt Size | Hex. Nuts and Bolts | Bolt Size | Manufacturers Std. Hex. Hd. | Bolt Size | Hex. Hd. Cap Screws | Screw Size |
|---|---|---|---|---|---|---|---|
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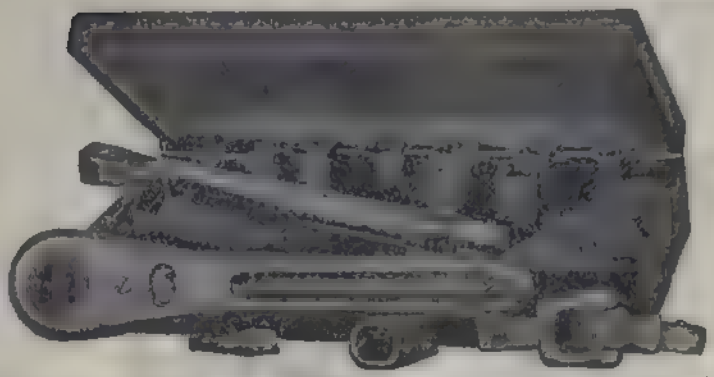
Special Hexagon Spark Plug Sockets:
4 inch Long; 29-32 inch Opening.
4 inch Long; 1 1/8 inch Opening.
Fitted Standard Spark Plugs.

Per Set

**No. 10**—In a Wooden Case; with 19 Sizes of Pressed Steel Sockets, Weight per Set 10 lbs. ..... **$18 00**

# SOCKET WRENCHES

## MOSSBERG



### FORD SET

Made Exclusively for Ford Cars and Completely Covers All Adjustments that are Likely to Require Attention. Set Consists of the Following: No. 30 Ratchet Socket Wrench, Handle Extension Bar, Universal Joint; Screw Driver Bit, Spark Plug Socket, Nose Reamer for Metal, Thoroughly Hardened Pressed Steel Sockets, Fitting Standard Sizes of Screws, Nuts and Bolts.

Each

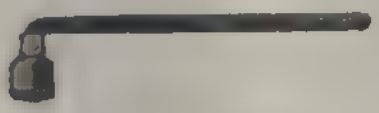
**No. 15A**—One Set in a Wooden Box; Weight per Set 9 lbs. . . . . **$9 00**

### FORD HEAVY DUTY DOUBLE END SET

Set is Composed of Five Sturdy Steel Bars, 8 inches Over All, Each Having a Socket on Either End, Has Seven Regular Hex Openings, One Square Socket, One Spark Plug Socket, and One Oval Socket.

Each

**No. 17**—One Set in a Canvas Roll, Weight per Set 5 lbs. . . . . **$3 30**

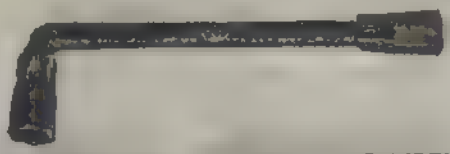


### FORD SINGLE END CYLINDER HEAD WRENCH

Per Dozen

**No. 620**—Fits the Nuts on Ford Cylinder Head, Weight per Dozen 14 lbs. . . . . **$6 50**

One Dozen in a Box



### FORD DOUBLE END CYLINDER HEAD WRENCH

Per Dozen

**No. 625**—Fits Nuts on Ford Cylinder Head; Weight per Dozen 18 lbs. . . . . **$8 00**

One Dozen in a Box

### HUB CAP WRENCH

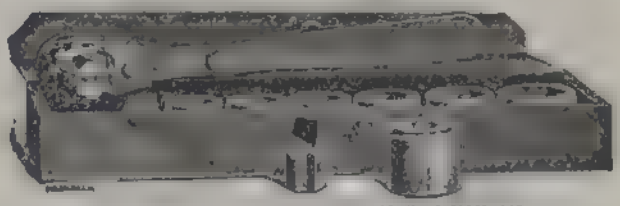
Per Dozen

**No. 8**—For putting on and removing Hub Caps on Ford Cars; Weight per Dozen 14 lbs. . . . . **$5 50**

One Dozen in a Box.

## LANE

The Ratchet Handle is Strong and Substantially Made, the Ratchet is Reversed by Shifting the Wire on Handle from One Side of the Lug to the Other. The Tools are Held in the Handle by a Brass Lock and can be Quickly Inserted or Removed. Wrenches are Made from Bar Tool Steel and Case Hardened.



### UNIQUE

Set Consists of a 7 inch Ratchet Handle, Two Screw Driver Blades and Seven Socket Wrenches, Fits All Size Nuts and Cap Screws from ¼ to ⅝ inch . . . . . Each

**No. LX**—Set Complete in Leatherette Case, Size 8½x2½x1¾ inches, Weight per set 1½ lbs. . . . . **$1 00**

### FORD UNIQUE

Made Especially for Ford Cars

Set Consists of a 7 inch Ratchet Handle, Two Screw Driver Bits, Six Sockets and One Extension Bar, Fits All Nuts, Bolts and Cap Screws on a Ford Car. . . . . Each

**No. FU**—Set Complete in a Leatherette Case, Size 8½x2½x1¾ inches, Weight per Set 2 lbs. **$4 50**

# SOCKET WRENCHES

## MILLER

COMET RATCHET WRENCH

Set Contains Eight Pieces. The Ratchet Head slides into the Socket Wrench Head in three different positions. Nut Sockets are carried on the Rod Handle.

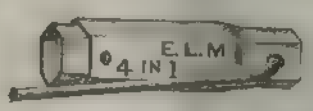
CONTENTS

One 11½ in. Nickle Plated Malleable Socket Wrench Handle.
Five Socket Nut Heads for ⅜ in. Cap Bolts; ⅜ in. Hex. Nuts; ½ in. Square Nuts; 7/16 in. and 1 ½ in. Hex. Nuts.
One Silver Metal Ratchet Head made to take any of the above Socket Nut Heads.
One Bent Steel Nickel Plated Handle, ⅜ in x 8 in. long.

Per Set

No. C8—Weight per Set, 2¾ lbs. $5 00

One Set in a Box.




4 IN 1 SPARK PLUG WRENCH

These Wrenches give the User Four different sizes for the price of one. Each end is faced off and drifted to correct size. Will fit the Spark Plug Perfectly. Guaranteed for Strength and Durability.

Each

No. 41—Two-Piece Telescope, Malleable Iron, Nickel Plated and Polished; Length 4½ inches, ¼x9 in. Round Steel Handle; Nickel Plated; Weight 1 lb. $1 85

One in a Box.

AUTO FRIEND

Set Contains Six Pieces, and either end can be Telescoped together, making it very convenient to reach difficult places; Long Nut Sockets to take Double Nuts and Handle with openings to provide for Bolts extending beyond Nuts.

CONTENTS

One Double End Socket Wrench for ⅜ in. Hex. Cap Bolts and 5/16 in. Square Nuts.
One Double End Socket Wrench for ⅜ and ½ inch Hexagon Nuts.
One Double End Socket Wrench for 5/16 and ¼ inch Hexagon Nuts.
One 2 in 1 Spark Plug Wrench.
One 4 in 1 Socket Wrench for 5/16, ⅜, 7/16 and ½ in. Hex. Nuts.
One Bent Steel Nickel Plated Handle, ⅜ in. x 8 in. long.

Per Set

No. 1—All Wrenches made of Best Malleable Iron, Galvanized, all Wrenches 10-in. long; Wt. per Set 4½ lb $2 20

One Set in a Box.

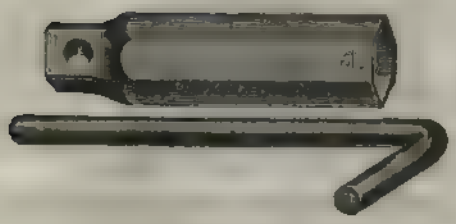
RATCHET WRENCH

Per Set

No. 88—Set Contains Six Pieces; One Standard Handle Ratchet Wrench, Length over all 10½ inches, Nickel Plated and Polished; Steel Handle ⅜x7 inches; Five Socket Nut Heads, Malleable Iron, for ⅜ in. Cap Bolts, ⅜ in. Hexagon Nuts, ½ in. Square Nuts, 7/16 in. Hexagon Nuts and ½ in. Hexagon Nuts, Weight per Set 1¾ lbs. $3.90

One Set in a Box.

## MOSSBERG



SINGLE END SPARK PLUG WRENCH

With Wire Handle. Case Hardened and Mottled.

Per Dozen

No. 401—Length 4 inches; Opening 13/32 inch; Fits Nearly All Makes of Plugs Except the Very Large Ones. $4 60
No. 411—Length 4 inches; Opening 1" inches, Fits Nearly All the Large Plugs. 4 00

One Dozen in a Box

DOUBLE END SPARK PLUG WRENCH

With Wire Handle, Case Hardened and Mottled

Per Dozen

No. 455—Length 4 inches; Opening 22/32 inch on One End and 1 1/32 inches on the Other; Fits Nearly All Spark Plugs..... $5.50

One Dozen in a Box

# WOSTENHOLM I•XL POCKET KNIVES

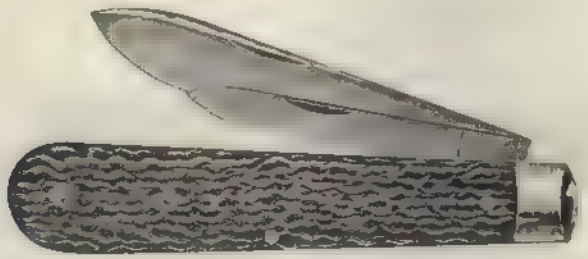
ILLUSTRATIONS FULL SIZE

One blade, spear, polished; weight per dozen 1¼ lbs.

| | Doz. |
|---|---|
| No. K50—Iron handle | $ 2.40 |

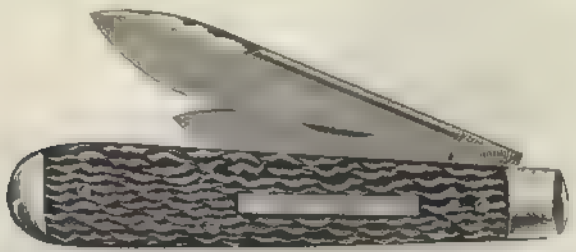
One blade, spey, polished and etched; polished iron bolster; weight per dozen 1½ lbs

| | Doz |
|---|---|
| No. K13786—Iron handle | $ 5 50 |



Two blades, large spear and pen, polished; polished iron bolster; iron lined; weight per dozen 1½ lbs.

| | Doz |
|---|---|
| No. K6984—Imitation stag handle | $10.00 |



Two blades, large spear and pen, polished and etched; German silver bolster, tip and shield; brass lined; weight per dozen 1¾ lbs.

| | Doz. |
|---|---|
| No. K17046—Imitation stag handle | $14.00 |

Two blades, large spey and pen, polished and etched; polished iron bolster; iron lined; weight per dozen 2 lbs.

| | Doz. |
|---|---|
| No. K11169—Iron handle | $ 9 50 |

One blade, sheep foot, polished; polished iron bolster; weight per dozen 1½ lbs.

| | Doz. |
|---|---|
| No. K7966—Iron handle | $ 5.50 |

One blade, large spear, polished and etched; polished iron bolster; weight per dozen 1½ lbs.

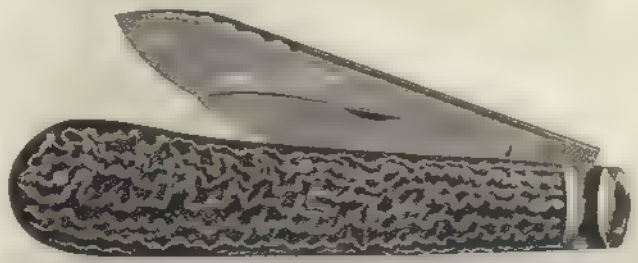
| | Doz |
|---|---|
| No. K8018—Iron handle | $ 5 50 |

Two blades, large spear and pen, polished; polished iron bolster; iron lined; weight per dozen 1½ lbs.

| | Doz. |
|---|---|
| No. K6983—Cocobolo handle | $ 9 50 |

Two blades, large spear and pen, polished and etched; polished iron bolster, iron lined; weight per dozen 2 lbs.

| | Doz |
|---|---|
| No. K8019—Iron handle | $ 9.50 |



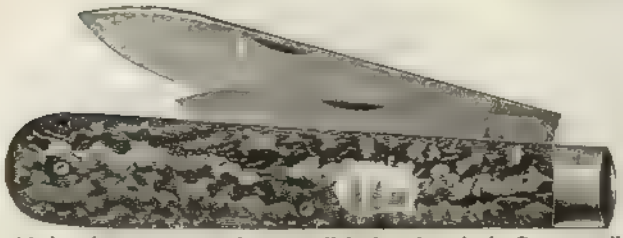
Two blades, large spear and pen, polished and etched; polished iron bolster; iron lined; weight per dozen 2¾ lbs.

| | Doz |
|---|---|
| No. K7033—Genuine stag handle | $18 00 |

Packed, one-half dozen in box

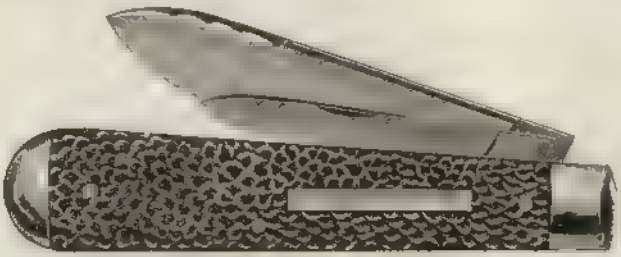
## WOSTENHOLM I • XL POCKET KNIVES

ILLUSTRATIONS FULL SIZE



Two blades, large spear and pen, polished and etched; German silver bolster and shield; brass lined; weight per dozen 2¼ lbs. Doz
No. K7008E—Genuine stag handle ..... ....$14 00

Two blades, large spear and pen, full Crocussed and etched; German silver bolsters and shield; brass lined; weight per dozen 2 lbs. Doz.
No. K17006—Imitation stag handle.....$19.50



Two blades, large spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2¼ lbs. Doz
No. K17011—Imitation stag handle..... ...$14.50

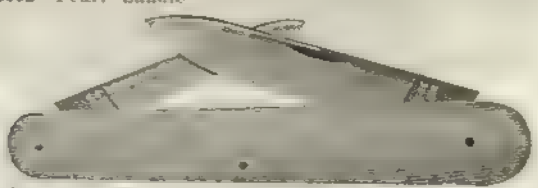
Two blades, large spear and pen, polished and etched; polished iron bolster and German silver shield, iron lined, weight per dozen 2¼ lbs. Doz.
No. K7096—Imitation stag handle.....$14 00

Two blades, large spear and pen, polished and etched; German silver bolsters and shield; iron lined; weight per dozen 2¼ lbs. Doz.
No. K17009—Imitation stag handle.....$14 50

Two blades, long spear and pen, full Crocussed and etched; polished iron bolster and tip; brass lined; weight per dozen 1½ lbs Doz.
No. K17008—Imitation stag handle . $21.00

## PEN KNIVES

Two blades, small pen and file, full Crocussed, brass lined, weight per dozen 6 oz Doz
No. K2092—Pearl handle ..... $16 00



Two blades, small spear and pen, full Crocussed; brass lined; weight per dozen 12 oz Doz
No. K2058—White bone handle . . $12 50

Two blades, small spear and pen, full Crocussed, German silver tips and shield; brass lined; weight per dozen 12 oz. Doz
No. K2116—Pearl handle .....$27.00

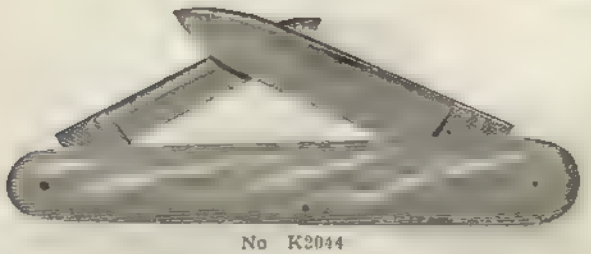
Two blades, small spear and pen, full Crocussed; German silver bolsters; brass lined weight per dozen 10 oz Doz
No. K2135—Imitation stag handle. . ... $14 00

Two blades, medium spear and pen, polished, German silver tips; brass lined; weight per dozen 14 oz Doz.
No. K2068—Pearl handle . . . $30.00

Packed, one-half dozen in box.

# WOSTENHOLM I•XL POCKET KNIVES

ILLUSTRATIONS FULL SIZE



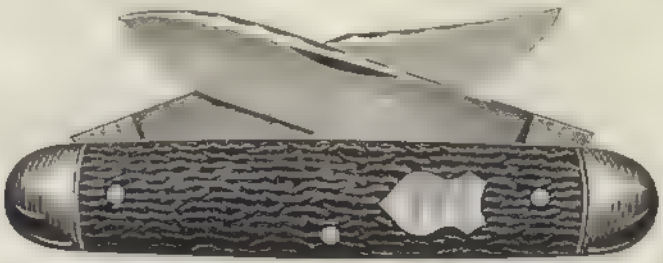
No. K2044

Two blades, medium spear and pen, full Crocussed; brass lined, weight per dozen 1 lb.

| | Doz. |
|---|---|
| No. K2017—Buffalo horn handle | $13 00 |
| No. K2018—White bone handle | 13 00 |
| No. K2060—Imitation stag handle | 13 00 |
| No. K2044 Pearl handle | 26 00 |

Two blade office knife, spear and ink eraser, polished; brass lined; weight per dozen 1¼ lbs

| | Doz. |
|---|---|
| No. K16584 White bone handle | $15.50 |



Two blades, large spear and clip, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 1½ lbs

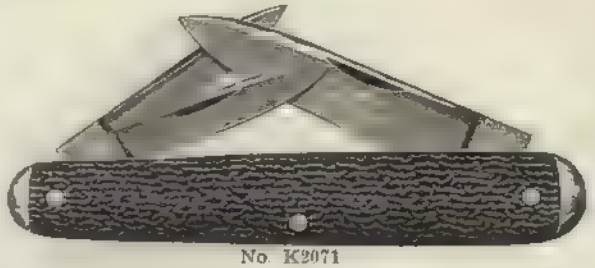
| | Doz. |
|---|---|
| No. K2241 Imitation stag handle | $16 50 |

Three blades, medium spear, pen and file, full Crocussed; brass lined; weight per dozen 1¼ lbs.

| | Doz. |
|---|---|
| No. K2061—Imitation stag handle | $17 00 |

Three blades, medium spear and two pens, full Crocussed; brass lined, weight per dozen 1¼ lbs.

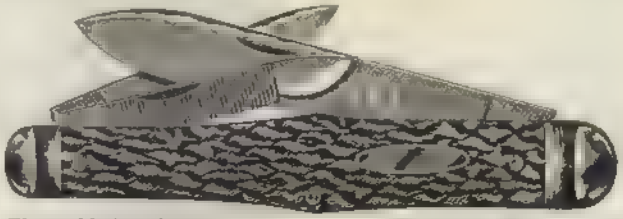
| | Doz. |
|---|---|
| No. K2045 -Pearl handle | $32 00 |



No. K2071

Three blades, medium spear and two pens, full Crocussed; German silver tips; brass lined; weight per dozen 1⅛ lbs.

| | Doz. |
|---|---|
| No. K2071—Imitation stag handle | $21.00 |
| No. K2073 -Pearl handle | 33 00 |

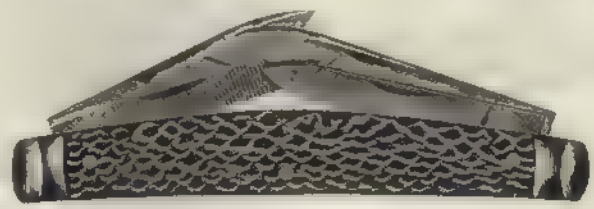


Three blades, large spear, pen and file, polished and etched, polished iron bolsters and German silver shield; brass lined; weight per dozen 2½ lbs

| | Doz. |
|---|---|
| No. K17020—Imitation stag handle | $21.00 |

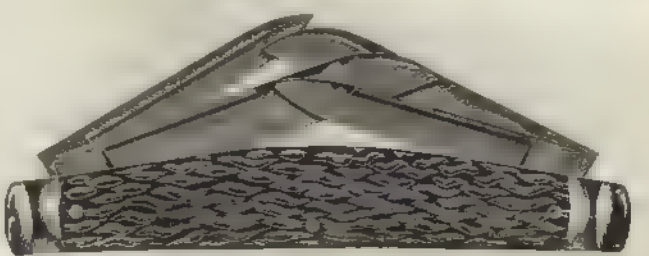
Three blades, large spear, sheep foot and pen, full Crocussed and etched; German silver bolsters and shield; brass lined; weight per dozen 2½ lbs.

| | Doz |
|---|---|
| No. K16229—Pearl handle | $50 00 |



Four blades, medium sheep foot, two pens and file, polished and etched; polished iron bolsters; brass lined; weight per dozen 1¼ lbs.

| | Doz |
|---|---|
| No. K2160—Imitation stag handle | $21 00 |



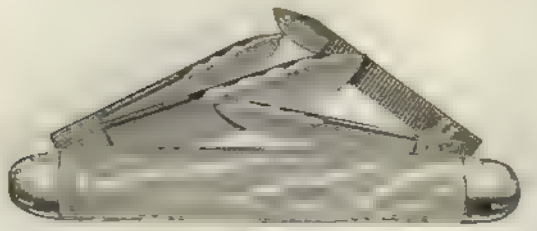
Four blades, two medium sheep foot and two pens, polished and etched; polished iron bolsters; brass lined; weight per dozen 2 lbs.

| | Doz. |
|---|---|
| No. K2192—Imitation stag handle | $24.00 |

Packed, one-half dozen in box

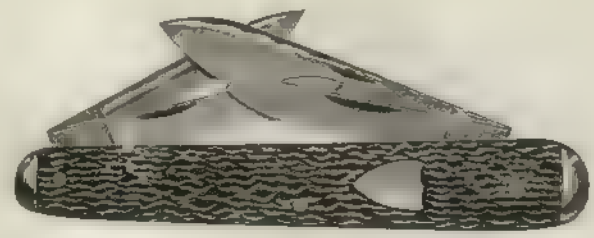
# WOSTENHOLM I•XL POCKET KNIVES

ILLUSTRATIONS FULL SIZE



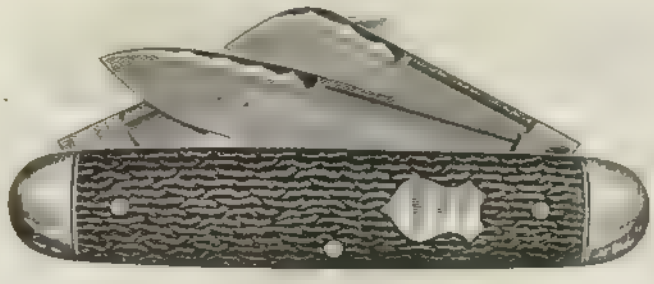
Four blades, small spear, two pens and file, full Crocussed; German silver bolsters; brass lined; weight per dozen 1 lb.

| | Doz. |
|---|---|
| No. K16580—Pearl handle | $32.00 |



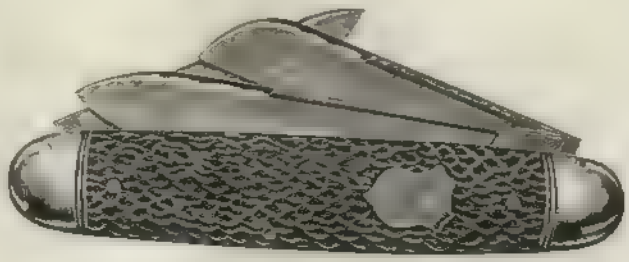
Four blades, small spear, two pens and file, full Crocussed; German silver tips and shield; brass lined; weight per dozen 1¼ lbs.

| | Doz. |
|---|---|
| No. K2074—Imitation stag handle | $24.00 |



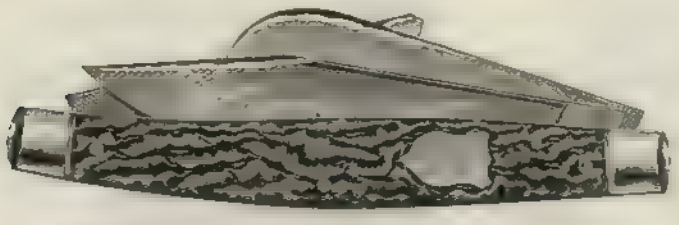
Three blades, spear, sheep foot and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2½ lbs.

| | Doz. |
|---|---|
| No. K16226—Genuine stag handle | $27.50 |



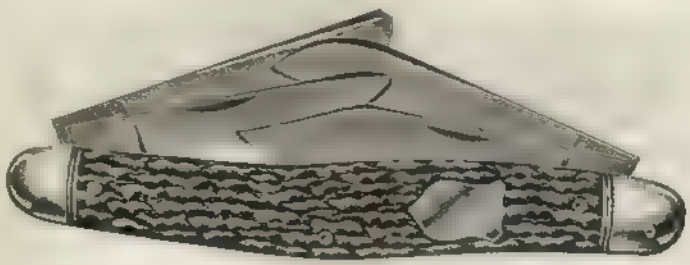
Three blade cattle knife, medium spear, sheep foot and pen, polished; German silver bolsters and shield; brass lined; weight per dozen 2¼ lbs.

| | Doz |
|---|---|
| No. K2054—Imitation stag handle | $25.50 |



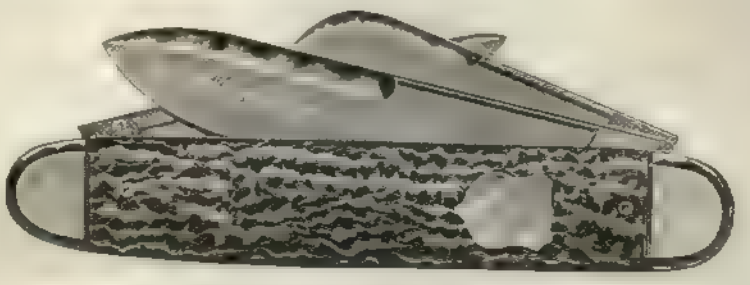
Three blades, clip, sheep foot and spey, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2¼ lbs.

| | Doz. |
|---|---|
| No. K2231—Imitation stag handle | $28.00 |



Four blades, medium clip, sheep foot, spey and pen, polished; German silver bolsters and shield; brass lined; weight per dozen 2¼ lbs.

| | Doz |
|---|---|
| No. K2225—Imitation stag handle | $29.00 |



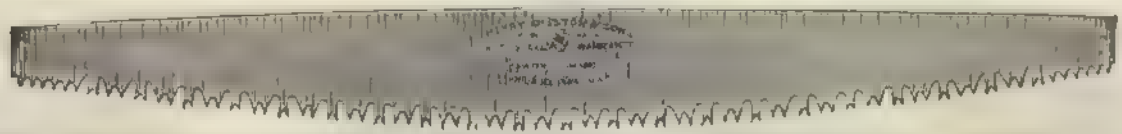
Three blades, large spear, sheep foot and long pen, full Crocussed and etched; German silver bolsters and shield, brass lined, milled back; weight per dozen 4 lbs.

| | Doz. |
|---|---|
| No. K15562—Imitation stag handle | $39.00 |

Packed, one-half dozen in box.

# WIDE CROSS CUT SAWS

## DISSTON



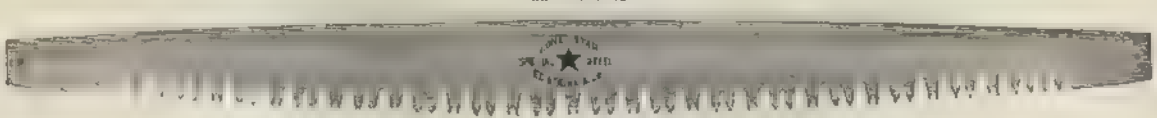
Finest crucible steel, specially hardened and tempered; polished, taper ground so as to give maximum amount of clearance at all parts of blade, without handles.

### CHAMPION TOOTH; WIDE BLADE

14x16 gauge.

| | | | | | |
|---|---|---|---|---|---|
| No. 2—Length, feet | 5 | 5½ | 6 | 6½ | 7 |
| Width at center, inches | 7¼ | 7¼ | 7½ | 7¾ | 8 |
| Weight, lbs. | 5¼ | 6½ | 8 | 9 | 10½ |
| Each | $3 10 | 3 50 | 3 70 | 4 30 | 4 60 |

## ATKINS

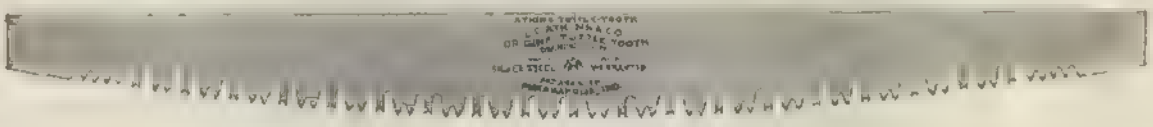


High grade crucible steel, hardened and gas tempered; polished; taper ground so as to give maximum amount of clearance at all parts of blade without handles.

### LONE STAR DIAMOND TOOTH

14x18 gauge

| | | | |
|---|---|---|---|
| No. 223—Length, feet | 5½ | 6 | 6½ |
| Width at center, inches | 5¾ | 5¾ | 5⅞ |
| Weight, lbs. | 4½ | 5½ | 6 |
| Each | $3.30 | 3.60 | 3.90 |
| | 4 10 | 4.40 | 4.70 |

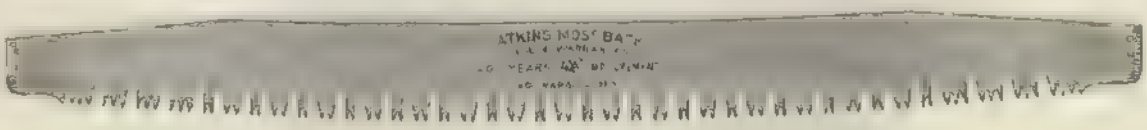


High grade crucible steel, hardened and gas tempered, polished; taper ground so as to give maximum amount of clearance at all parts of blade, without handles.

### THIN BACK; TUTTLE TOOTH

14x18 gauge.

| | Each |
|---|---|
| No. 331—Length 6 feet; width at center 7 inches; weight 7 lbs. | $3.12 $ 4.20 |



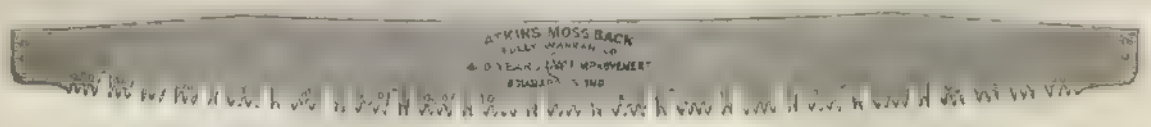
### MOSS-BACK

High grade crucible steel, hardened and gas tempered; polished; taper ground so as to give maximum amount of clearance at all parts of blade; without handles.

### TUTTLE TOOTH, PERFORATED

14x18 gauge.

| | Each |
|---|---|
| No. 273—Length 6 feet; width at center 7 inches; weight 6 lbs. | $4.20 $ 6.00 |



### MOSS-BACK

High grade crucible steel hardened and gas tempered, polished; taper ground so as to give maximum amount of clearance at all parts of blade, without handles

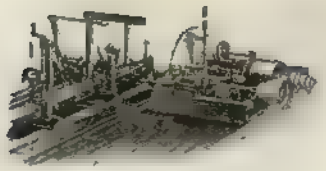
### LANCE TOOTH, PERFORATED

14x18 gauge.

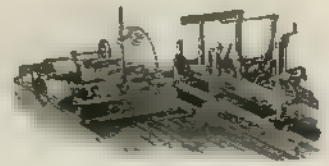
| | | |
|---|---|---|
| No. 278—Length, feet | 5½ | 6 |
| Width at center, inches | 5¾ | 6¼ |
| Weight, lbs. | 5½ | 6½ |
| Each | $3 85 | 4 20 |
| | 5 20 | 5 60 |

# *CIRCULAR SAWS

## SOLID TOOTH



Left hand



Right hand

### HAND OF SAWS

**When in Use on Saw Mill**

Standing in front of a circular saw, with the saw revolving toward you, if the carriage upon which the log rests passes to the right of the saw, it is a right hand saw; if to the left, it is a left hand saw.

**When Not in Use on Saw Mill**

Circular saws 30 inches and smaller are made flat on both sides and are used as either right or left hand; saws larger than 30 inches, when bevel ground, with the center thicker than the outer edge on one side and perfectly flat on the other, are "handed;" place the saw in front of you with the teeth running toward you, the flat side of saw names the "hand."

### Directions for Ordering

State diameter in inches; gauge at rim; gauge at center; right or left hand; number and kind of teeth; size of mandrel hole; size of pin hole; distance between pin holes from center to center; greatest feed at each revolution, in inches; kind of timber to be sawed; number of revolutions per minute; horse power of engine; daily output of mill. Saws 40 inches in diameter and larger have 2-inch mandrel hole and ⅝ inch tug-pin holes, three inches from center to center. If wanted differently send pattern of holes.

### DISSTON

**Polished crucible steel, patent ground and tempered.**

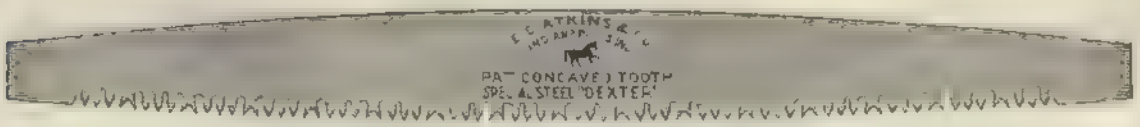
| Diameter Inches | Thickness Gauge | Size of Hole Inches | Price Each | | Extra for Each Additional Gauge (Heavier) | | Price for Beveling New Saws (Grinding or Beveling Old Saws Extra) Per Gauge | | Extra for Setting and Sharpening Rip Saw | | Extra for Setting and Sharpening Cross-Cut Saw | | Speed of Saws Running 10,000 Ft. per Minute on the Rim, Revolutions per Minute |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 18 | ⅞ | $ 2 40 | $ 2 40 | $ 0.08 | $ 0.08 | $ 0.22 | $ 0.22 | $ 0.10 | $ 0.10 | $ 0.13 | $ 0.13 | 4,600 |
| 9 | 17 | ⅞ | 2 80 | 2 80 | .10 | .10 | .25 | .25 | .11 | .11 | .14 | .14 | |
| 10 | 16 | 1 | 3 30 | 3.30 | .12 | .12 | .28 | .28 | .12 | .12 | .16 | .16 | 3,920 |
| 11 | 16 | 1 | 3 90 | 3 90 | .16 | .16 | .30 | .30 | .13 | .13 | .18 | .18 | |
| 12 | 15 | 1 | 4 40 | 4.40 | .20 | .20 | .35 | .35 | .15 | .15 | .20 | .20 | 3,260 |
| 14 | 14 | 1⅛ | 5 30 | 5.30 | 25 | .25 | .40 | .40 | .18 | .18 | .23 | .23 | |
| 16 | 14 | 1⅛ | 6 50 | 6 50 | 30 | .30 | .50 | .50 | .20 | .20 | .25 | .25 | 2,450 |
| 18 | 13 | 1¼ | 8 00 | 8.00 | 40 | .40 | .60 | .60 | .23 | .23 | .28 | .28 | |
| 20 | 13 | 1⅜ | 9.50 | 9.50 | 50 | .50 | .70 | .70 | .25 | .25 | .32 | .32 | 1,960 |
| 22 | 12 | 1⅜ | 11.50 | 11.50 | 60 | 60 | .80 | .80 | .28 | .28 | .35 | .35 | |
| 24 | 11 | 1⅜ | 13.50 | 13.50 | 70 | .70 | .90 | .90 | .31 | .31 | .40 | .40 | 1,630 |
| 26 | 11 | 1⅜ | 16.00 | 16.00 | .85 | .85 | 1.05 | 1.05 | .35 | .35 | .45 | .45 | |
| 28 | 10 | 1½ | 18.50 | 18 50 | 1.00 | 1.00 | 1.20 | 1.20 | .38 | .38 | .50 | .50 | 1,400 |
| 30 | 10 | 1½ | 21.00 | 21 00 | 1.15 | 1.15 | 1.30 | 1.30 | .42 | .42 | .55 | .55 | |
| 32 | 10 | 1⅝ | 24.00 | 24 00 | 1.30 | 1.30 | 1.40 | 1.40 | .45 | .45 | .60 | .60 | 1,225 |
| 34 | 9 | 1⅝ | 27.00 | 27.00 | 1.50 | 1.50 | 1.55 | 1.55 | .50 | .50 | .65 | .65 | |
| 36 | 9 | 1⅝ | 31.00 | 31 00 | 1.80 | 1.80 | 1.70 | 1.70 | .55 | .55 | .70 | .70 | 1,080 |
| 38 | 9 | 1⅝ | 35.00 | 35 00 | 2 00 | 2.00 | 1.85 | 1.85 | .60 | .60 | .75 | .75 | |
| 40 | 9 | 2 | 41 00 | 41 00 | 2 30 | 2.30 | 2.00 | 2 00 | .65 | .65 | .80 | .80 | 980 |
| 42 | 8 | 2 | 47.00 | 47 00 | 2.60 | 2.60 | 2.20 | 2.20 | .... | .... | .85 | .85 | |
| 44 | 8 | 2 | 55.00 | 55 00 | 3.00 | 3.00 | 2.40 | 2.40 | .... | .... | .90 | .90 | 890 |
| 46 | 8 | 2 | 65.00 | 65 00 | 3.50 | 3 50 | 2.60 | 2.60 | .... | .... | 1.00 | 1 00 | |
| 48 | 8 | 2 | 75.00 | 75.00 | 4.00 | 4.00 | 2.80 | 2.80 | .... | .... | 1.10 | 1.10 | 815 |
| 50 | 7 | 2 | 85.00 | 85.00 | 4.50 | 4 50 | 3.00 | 3 00 | .... | .... | 1.20 | 1.20 | |
| 52 | 7 | 2 | 95 00 | 95.00 | 5.00 | 5.00 | 3.25 | 3.25 | .... | .... | 1.30 | 1.30 | 750 |
| 54 | 7 | 2 | 105.00 | 105.00 | 6.00 | 6 00 | 3.50 | 3.50 | .... | .... | 1.40 | 1.40 | |
| 56 | 7 | 2 | 120.00 | 120.00 | 7.00 | 7.00 | 3.75 | 3.75 | .... | .... | 1.50 | 1.50 | 700 |
| 58 | 7 | 2 | 135.00 | 135.00 | 8.00 | 8.00 | 4.05 | 4.05 | .... | .... | 1.60 | 1.60 | |
| 60 | 6 | 2 | 150.00 | 150 00 | 9 00 | 9.00 | 4.35 | 4.35 | .... | .... | 1.70 | 1.70 | 640 |
| 62 | 6 | 2 | 170.00 | 170 00 | 10.00 | 10.00 | 4 65 | 4.65 | .... | .... | 1.80 | 1.80 | |
| 64 | 6 | 2 | 190.00 | 190 00 | 12.00 | 12.00 | 5 00 | 5.00 | .... | .... | 1.90 | 1.90 | 600 |
| 66 | 6 | 2 | 210.00 | 210 00 | 15 00 | 15 00 | 5.35 | 5 35 | .... | .... | 2.00 | 2.00 | |
| 68 | 5 | 2 | 235.00 | 235.00 | 18.00 | 18 00 | 5.75 | 5.75 | .... | .... | 2.10 | 2.10 | 560 |
| 70 | 5 | 2 | 265 00 | 265 00 | 21 00 | 21 00 | 6.15 | 6.15 | .... | .... | 2.20 | 2.20 | |
| 72 | 5 | 2 | 300.00 | 300 00 | 24.00 | 24.00 | 6.55 | 6.55 | .... | .... | 2.30 | 2.30 | 530 |
| 74 | 5 | 2 | 340.00 | 340 00 | 27 00 | 27.00 | 7.00 | 7.00 | .... | .... | 2.40 | 2.40 | |
| 76 | 5 | 2 | 390.00 | 390.00 | 30 00 | 30 00 | 7.50 | 7.50 | .... | .... | 2.50 | 2.50 | |

Saws of uneven diameters not listed, take price of next largest size listed, no extra charge for saws one gauge thicker than list; no extra charge for saws one, two or three gauges thinner than list, when more than three gauges thinner add 5% to list for each gauge; saws 48 inches and larger, thinner than 10 gauge, not warranted, saws 40 inches or less in diameter beveled one gauge without extra charge; 44 inches or larger beveled two gauges without extra charge; saws hollow ground or concaved, add for each gauge hollow-ground or concaved double the price listed for beveling.

**NOTE—Goods marked thus (*) are for factory shipment only.**

## WIDE CROSS CUT SAWS

### ATKINS




**DEXTER**

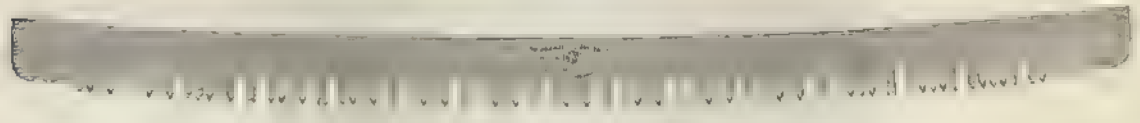
High grade crucible steel, hardened and gas tempered; polished; taper ground so as to give maximum amount of clearance at all parts of blade; very easy and fast cutting; without handles.

CONCAVE TOOTH
14x18 gauge.

| No. 219—Length, feet | 6 | 6½ | 7 |
|---|---|---|---|
| Width at center, inches | 7 | 7½ | 7¾ |
| Weight, lbs. | 7 | 9 | 10 |
| Each | $4.80 | 5.20 | 5.60 |
| | 6 50 | 6.80 | 7.50 |

## NARROW CROSS CUT SAWS

### ATKINS



**VICTOR, HOLLOW BACK**

High grade crucible steel, hardened and gas tempered, polished, taper ground so as to give maximum amount of clearance at all parts of blade, without handles.

LANCE TOOTH
14x16 gauge

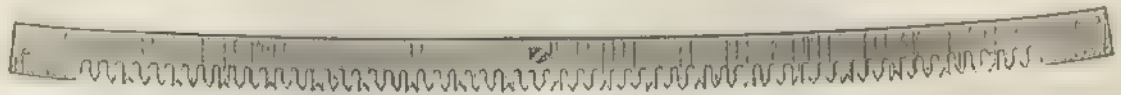
| No. 388—Length, feet | 5 | 5½ | 6 |
|---|---|---|---|
| Width at center, inches | 3¾ | 3¾ | 3¾ |
| Weight, lbs | 4 | 4½ | 5 |
| Each | $2 00 | 2 20 | 2.40 |
| | 2 80 | 3 00 | 3 20 |

### WYETH SHIELD BRAND

Fine cast steel, patent ground and tempered; highly polished; with No. 7 patent loop handles.

CHAMPION TOOTH, HOLLOW BACK

| No. 100 Length, feet | 5 | 5½ | 6 | 6½ |
|---|---|---|---|---|
| Width at center, inches | 3¼ | 3¼ | 3¼ | 3¼ |
| Weight, lbs | 4¼ | 4½ | 5 | 5½ |
| Each | $1 80 | 2.10 | 2 20 | 2 40 |



Fine cast steel, patent ground and tempered; highly polished; with No. 7 patent loop handles.

DIAMOND TOOTH, HOLLOW BACK

| No. 200—Length, feet | 5½ | 6 |
|---|---|---|
| Width at center, inches | 3¼ | 3¼ |
| Weight, lbs | 4½ | 5 |
| Each | $2 30 | 2 40 |

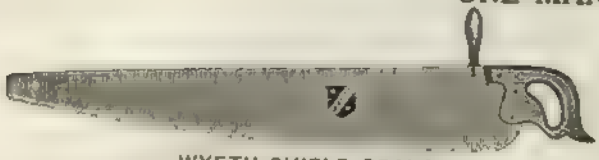
### DISSTON

Finest crucible steel, specially hardened and tempered; polished; taper ground so as to give maximum amount of clearance at all parts of blade; with No. 109 triumph handles.

CHAMPION TOOTH, HOLLOW BACK

| No. 300 Length, feet | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Width at center, inches | 3¼ | 3¼ | 3¼ | 3¼ | 3¼ |
| Weight, lbs. | 5 | 5¼ | 5¾ | 6¼ | 6¾ |
| Each | $1.80 | 1.90 | 2.10 | 2 30 | 2 50 |

## ONE MAN CROSS CUT SAWS

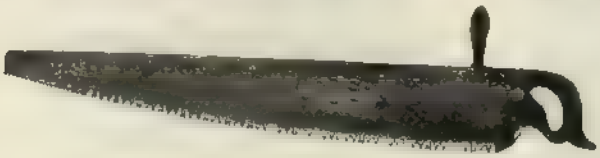


### WYETH SHIELD BRAND

Best quality cast steel, ground and highly tempered; highly polished, thin straight back, beechwood handle with varnished edges, attached with four brass screws, with supplementary handle which can be attached to blade and thus make a regular cross cut saw.

**CHAMPION TOOTH**

| No. 400—Length, feet | 2½ | 3 | 3½ | 4 | 4½ | 5 |
|---|---|---|---|---|---|---|
| Weight, lbs. | 3 | 3½ | 4 | 5 | 5¾ | 6½ |
| Each | $1 80 | 2 20 | 2.50 | 2 90 | 3 30 | 3 60 |



### ATKINS

High grade crucible steel, hardened and gas tempered, polished taper ground so as to give maximum amount of clearance at all parts of blade, applewood handle, with varnished edges attached with four screws, with supplementary handle which can be attached to blade and thus make a regular cross cut saw.

**VICTOR TOOTH**

| No. 392 Length, feet | 3½ | 4 | 4½ | 5 |
|---|---|---|---|---|
| Weight, lbs. | 3½ | 5 | 6 | 7½ |
| Each | $2.24 | 2.56 | 2.88 | 3.20 |
| | 2 90 | 3 30 | 3 80 | 4 20 |

### DISSTON

Finest crucible steel, specially hardened and tempered, polished, taper ground so as to give maximum amount of clearance at all parts of blade, beechwood handle with varnished edges, attached with four screws, with supplementary handle which can be attached to blade and thus make a regular cross cut saw.

**CHAMPION TOOTH**

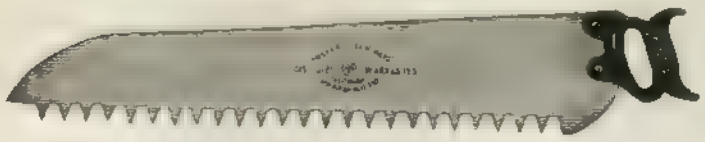
| No. 500 Length, feet | 3 | 3½ | 4 | 4½ | 5 |
|---|---|---|---|---|---|
| Weight, lbs. | 3½ | 4½ | 5 | 6 | 7 |
| Each | $2 30 | 2 60 | 3 00 | 3 50 | 3 80 |

**GREAT AMERICAN TOOTH, SKEW BACK**

| No. 1890 Length, feet | 3 | 3½ | 4 | 4½ | 5 |
|---|---|---|---|---|---|
| Weight, lbs. | 3¼ | 4¼ | 5½ | 6 | 7 |
| Each | $2 40 | 2 80 | 3 20 | 3 70 | 4 00 |

## ICE SAWS

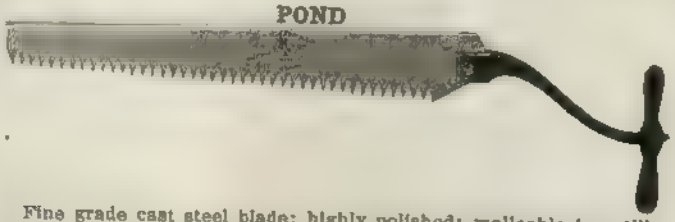
### WAGON



Special cast steel blade highly polished, wire nickeled handle attached with two rivets, blade set and sharpened for wagon use.

| No. 25—Length blade, inches | 24 | 26 | 28 |
|---|---|---|---|
| Weight per dozen, lbs. | 35 | 37½ | 40 |
| Dozen | $18 00 | 19.00 | 20 00 |

### POND



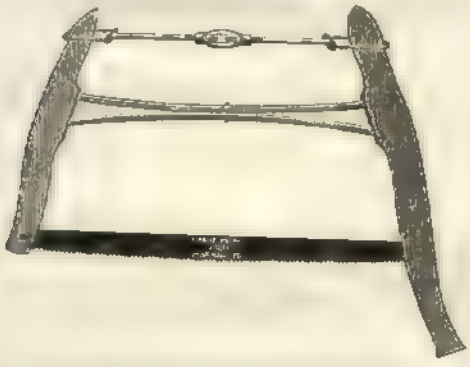
Fine grade cast steel blade; highly polished; malleable iron tiller handle, black japanned, with wood cross bar, fastened to blade with removable bolt and pin; tapered, width at butt 7 inches, width at point 5 inches; teeth set and sharpened.

| No. 50—Length, feet | 4½ | 5 |
|---|---|---|
| Weight, lbs. | 11 | 12 |
| Each | $4.50 | 5.00 |

**EXTRA TILLER HANDLES**

| | Each |
|---|---|
| No. T50—Extra handles for No. 50 pond ice saws; weight per dozen 4¼ lbs | $ 1.20 |

## WOOD SAWS



### WYETH

Hardwood frame, painted red, riveted brace with 26 inch arm, 22 inch rust proof, gray finish swivel loop rod, with heavy buckles, highest grade steel blade, blued, 30 inches long.

| | Doz. |
|---|---|
| No. 350—With common tooth, breasted blade, 1½ inches wide; weight per dozen 46 lbs | $10 50 |

Packed, one-half dozen in box.

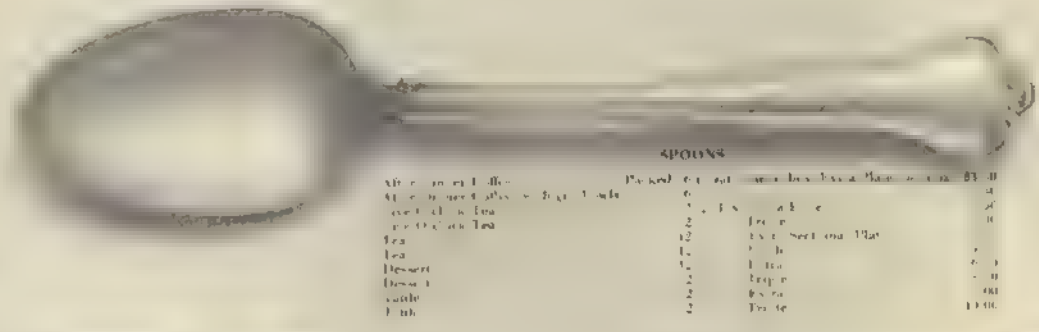
| | Doz. |
|---|---|
| No. 3500—With Champion tooth blade, 2¼ inches wide; weight per dozen 52 lbs | $11.00 |

Packed, one-half dozen in box.

1835 R. WALLACE
Silver Plate that *resists* wear

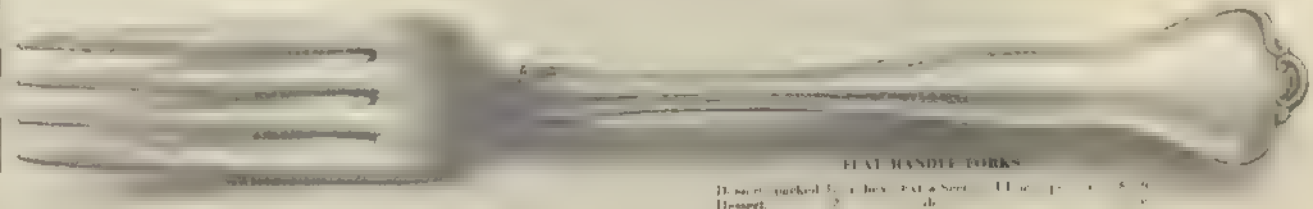
# THE ARLINGTON

The Arlington consists entirely of beautiful curves, soft, rippling lines and a very graceful contour — the result being a rare combination of symmetry and simplicity. Although the design is delicate, every piece is strongly constructed for "wear-resistance." The Arlington is finished bright and has all the outward appearance of sterling silver.



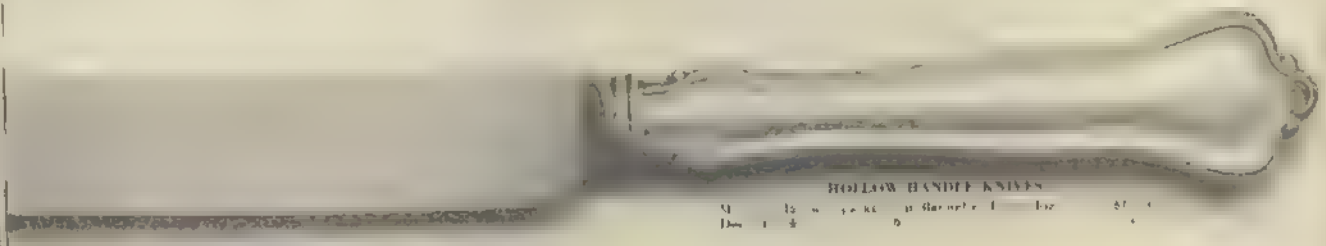
SPOONS

| | Packed | |
|---|---|---|
| | 6 | |
| | 12 | Extra Sectional Plate |
| Tea | 12 | |
| Tea | 6 | |
| Dessert | 6 | |
| Dessert | 6 | |
| Table | 6 | |
| Table | 6 | |



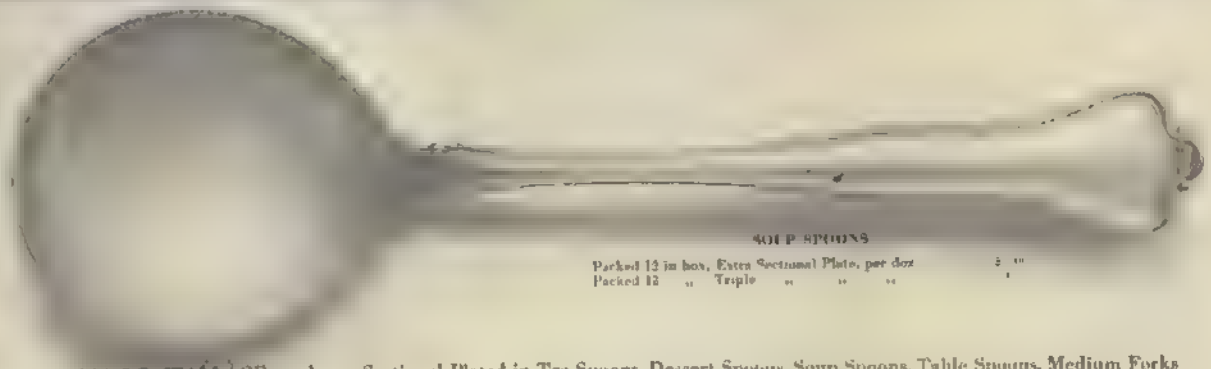
FLAT HANDLE FORKS

| | | |
|---|---|---|
| Dessert, packed 6 in box, Extra Sectional Plate, per doz | | |
| Dessert | 6 | |
| Medium | 6 | |
| Medium | 6 | |



HOLLOW HANDLE KNIVES

| | | |
|---|---|---|
| Medium, packed 6 in box, Extra Sectional Plate, per doz | | |
| Dessert | 6 | |



SOUP SPOONS

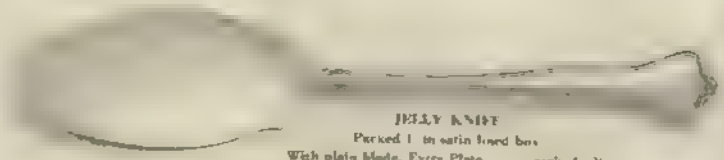
| | |
|---|---|
| Packed 12 in box, Extra Sectional Plate, per doz | |
| Packed 12 " Triple " " " | |

All 1835 R. WALLACE goods are Sectional Plated in Tea Spoons, Dessert Spoons, Soup Spoons, Table Spoons, Medium Forks and Dessert Forks, on parts most exposed to wear, which increases the wear-resistance threefold.

Illustrations Full Size

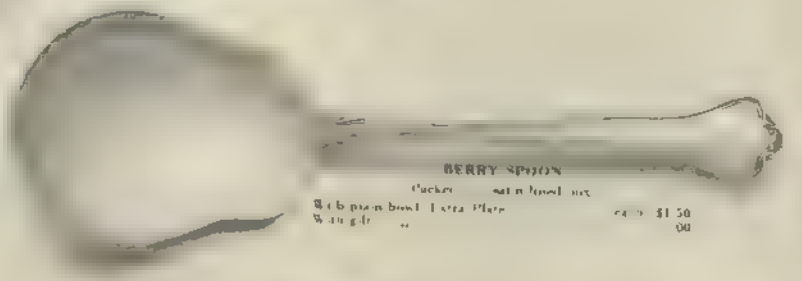
# 1835 R.WALLACE
## Silver Plate that *resists* wear

## ARLINGTON PATTERN

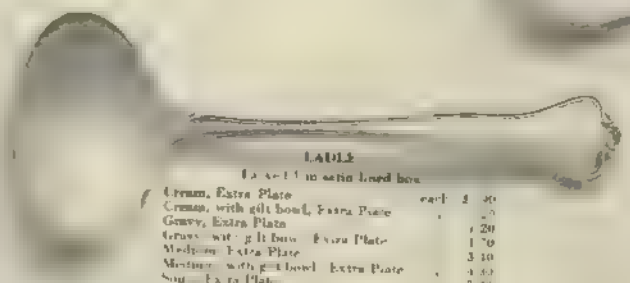


**JELLY KNIFE**
Packed 1 in satin lined box
With plain blade, Extra Plate, ..... each $ .75
With gilt ..... 1.00

**PIE SERVER, HOLLOW HANDLE**
Packed 1 in satin lined box
Plated blade ..... each $ 1.00

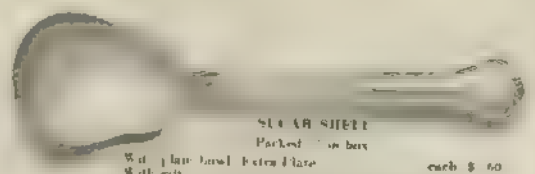


**BERRY SPOON**
Packed ..... satin lined box
With plain bowl, Extra Plate ..... each $1.50
With gilt ..... 2.00

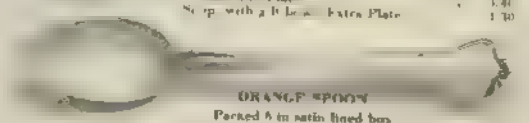


**LADLE**
Packed 1 in satin lined box

| | |
|---|---|
| Cream, Extra Plate | each $ .50 |
| Cream, with gilt bowl, Extra Plate | .75 |
| Gravy, Extra Plate | 1.25 |
| Gravy, with gilt bowl, Extra Plate | 1.75 |
| Medium, Extra Plate | 2.50 |
| Medium, with gilt bowl, Extra Plate | 3.00 |
| Soup, Extra Plate | 3.50 |
| Soup, with gilt bowl, Extra Plate | 4.00 |

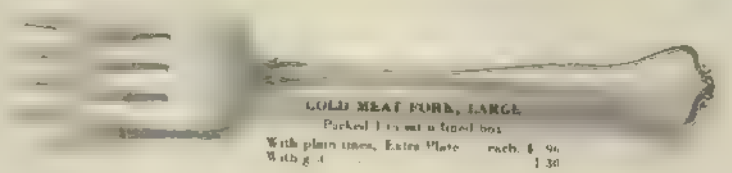


**SUGAR SHELL**
Packed ... in box
With plain bowl, Extra Plate ..... each $ .60
With gilt ..... .80
Packed 1 in satin lined box, each 10c. extra

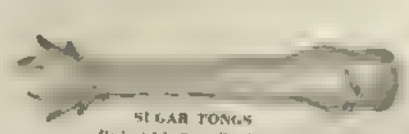


**ORANGE SPOON**
Packed 6 in satin lined box
With plain bowl, Extra Plate ..... per doz., $5.00
With gilt ..... 7.00

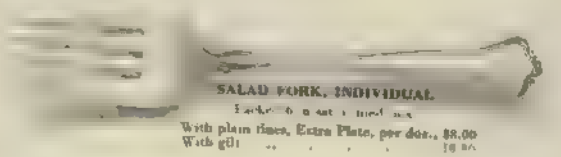
**SPOON HANDLE BUTTER KNIFE**
With plain blade, Extra Plate ..... each $ .70
With gilt ..... .90
Packed 1 in satin lined box, each 10c. extra



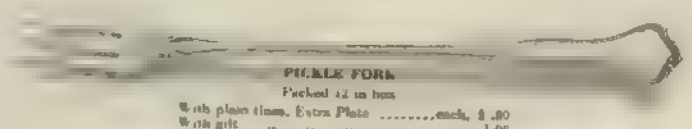
**COLD MEAT FORK, LARGE**
Packed 1 in satin lined box
With plain tines, Extra Plate ..... each $ .90
With gilt ..... 1.30



**SUGAR TONGS**
Packed 1 in Satin lined box
Extra Plate ..... each $1.00



**SALAD FORK, INDIVIDUAL**
Packed 6 in satin lined box
With plain tines, Extra Plate, per doz., $8.00
With gilt ..... 10.00

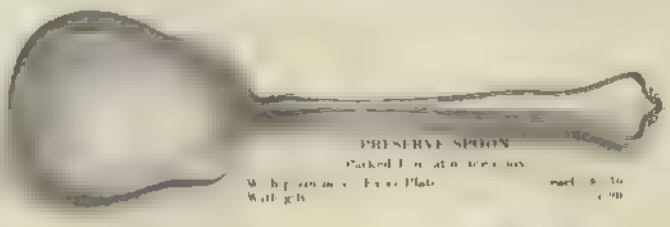


**PICKLE FORK**
Packed 12 in box
With plain tines, Extra Plate ..... each, $ .80
With gilt ..... 1.00
Packed 1 in satin lined box, each 10c. extra

Illustrations One-Half Scale

# 1835 R.WALLACE
## Silver Plate that *resists* wear

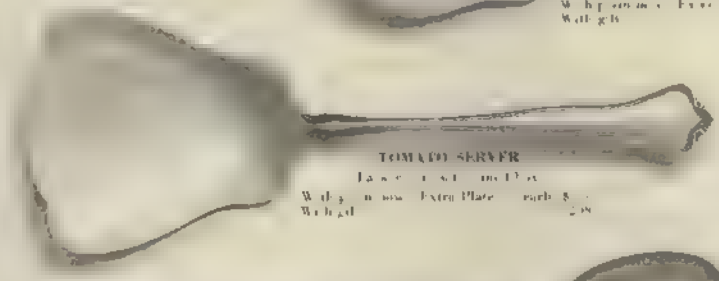
## ARLINGTON PATTERN



PRESERVE SPOON

Packed 1 in a box

With plain bowl, Extra Plate ... each $ 3.50
With gilt ... 4.00



TOMATO SERVER

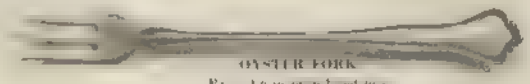
Packed 1 in a box

With plain bowl, Extra Plate ... each $ 3.50
With gilt ... 4.00

BOUILLON SPOON

Packed 6 in satin lined box

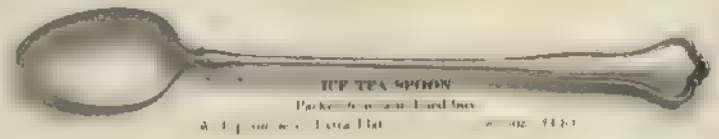
With plain bowl, Extra Plate ... per doz. $ 42.00
With gilt ... 48.00



OYSTER FORK

Packed 6 in satin lined box

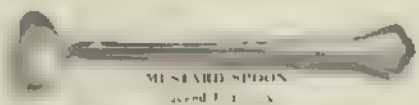
With plain bowl, Extra Plate ... per doz. $ 42.00
With gilt ... 48.00



ICE TEA SPOON

Packed 6 in satin lined box

With plain bowl, Extra Plate ... per doz. $ 42.00



MUSTARD SPOON

Packed 1 in a box

With plain bowl, Extra Plate ... per doz. $ 42.00
With gilt ... 48.00

CARVING OR FISH KNIFE

With plain blade, Extra Plate ... per doz. $ 72.00
With gilt ... 84.00

Packed 1 in satin lined box, extra

LETTUCE FORK

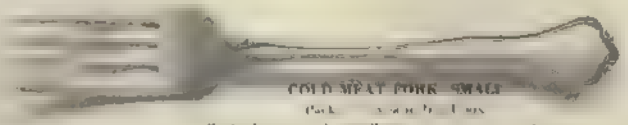
Packed 1 in satin lined box

With plain tines, Extra Plate ... each $ 3.50
With gilt ... 4.00

BERRY FORK

Packed 6 in satin lined box

Extra Plate ... per doz. $ 42.00
Extra Plate, with gilt bowl ... 48.00



COLD MEAT FORK, SMALL

Packed 1 in satin lined box

With plain tines, Extra Plate ... each $ 3.50
With gilt ... 4.00

ICE CREAM SPOON

Packed 2 in a box

With plain bowl, Extra Plate ... per doz. $ 42.00
With gilt ... 48.00

BUTTER SPREADER

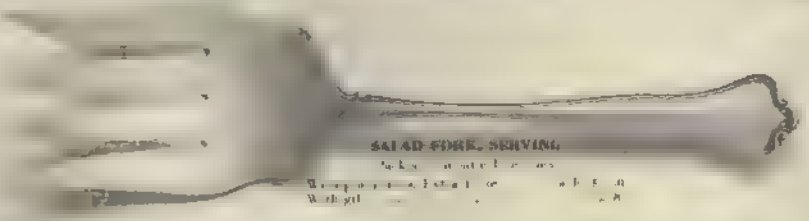
Packed 1 in satin lined box

With plain blade, Extra Plate ... per doz. $ 36.00
With gilt ... 42.00

ICE CREAM FORK

Packed 6 in satin lined box

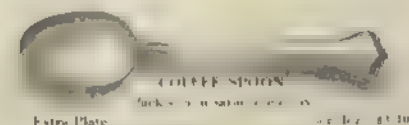
Extra Plate ... per doz. $ 42.00
Extra Plate, with gilt bowl ... 48.00



SALAD FORK, SERVING

Packed 1 in satin lined box

With plain tines, Extra Plate ... each $ 3.50
With gilt ... 4.00



COFFEE SPOON

Packed 6 in satin lined box

Extra Plate ... per doz. $ 42.00
Extra Plate, with gilt bowl ... 48.00

Illustrations One-Half Scale

# SOLID HANDLE CUTLERY

Illustrations Full Size

SPOONS, FORKS AND OTHER PIECES STAMPED **1847 ROGERS BROS.** ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

*"Silver Plate that Wears"*

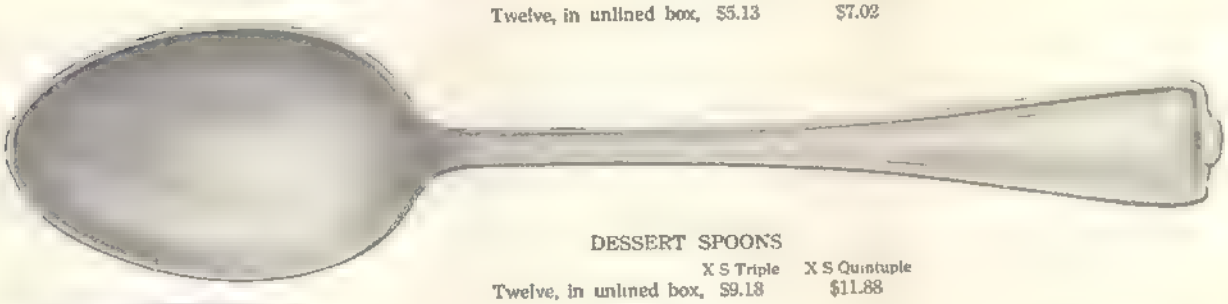
# CROMWELL PATTERN

From the standpoint of mechanical construction this design is especially noteworthy, the grading of the metal having been given most careful attention so that the strength and weight of each piece are in the right place.

PRICES PER DOZEN — Bright — ILLUSTRATIONS ACTUAL SIZE

TEA SPOONS

| | X S Triple | X S Quintuple |
|---|---|---|
| Twelve, in unlined box, | $5.13 | $7.02 |



DESSERT SPOONS

| | X S Triple | X S Quintuple |
|---|---|---|
| Twelve, in unlined box, | $9.18 | $11.88 |

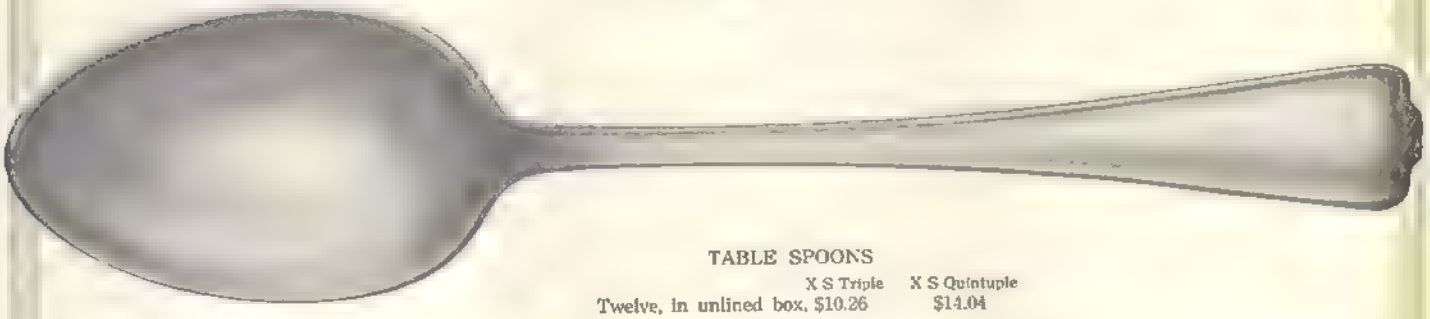


TABLE SPOONS

| | X S Triple | X S Quintuple |
|---|---|---|
| Twelve, in unlined box, | $10.26 | $14.04 |

FLAT HANDLE FORKS

| | X S Triple | X S Quintuple |
|---|---|---|
| Dessert Forks, twelve in unlined box, | $9.18 | $11.88 |
| Medium Forks, twelve in unlined box, | $10.26 | $14.04 |

HOLLOW HANDLE KNIVES AND FORKS

| | |
|---|---|
| Medium Knives, six in flannel roll, per doz., | $17.28 |
| Dessert Knives, six in flannel roll, " " | 16.20 |
| Medium Forks, six in flannel roll, per doz., | $17.28 |
| Dessert Forks, six in flannel roll, " " | 16.20 |

c 5-13

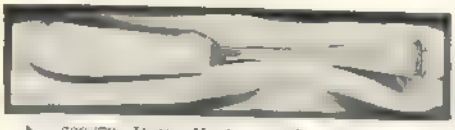
M.M.

SPOONS, FORKS AND OTHER PIECES STAMPED **1847 ROGERS BROS.** ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

*"Silver Plate that Wears"*

# CROMWELL PATTERN

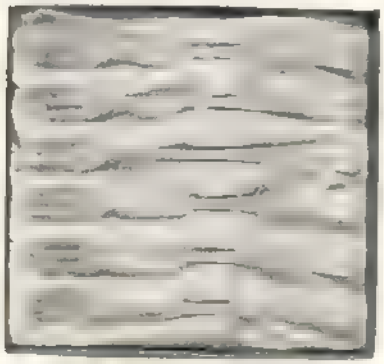
Illustrations One-third Scale



No. 609/79 Butter Knife, twist handle, each, $1.08
With gilt blade, $1.43

No. 604/79 Butter Knife and Sugar Shell
Per set, $1.98; with gilt bowl $2.34

No. 608/79 Sugar Shell, each, $0.95
With gilt bowl, $1.30



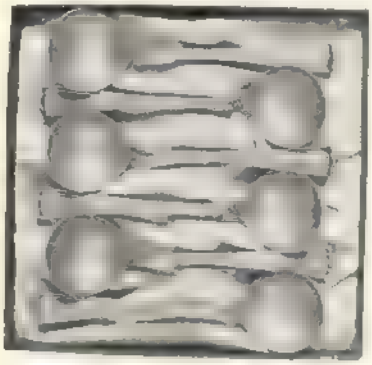
No. 622/79 Six Oyster Forks, per set, $3.40

No. 116/79 Child's Set, 3 pieces, per set, $2.16
No. 593/79 Child's Set, 3 pieces, with Nickel Silver, Silver Soldered, Hollow Handle Knife, per set, $2.81
No. 703/79 Child's Set
Same pieces as No. 593 and Napkin Ring, per set, $3.51

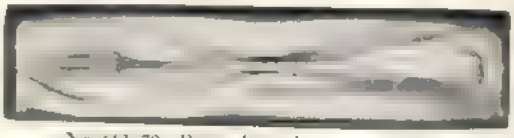
No. 647/79 Six Orange or Grape Fruit Spoons, per set, $3.24

No. 662/79 Cold Meat Fork, each, $1.35
With gilt tines, $1.89

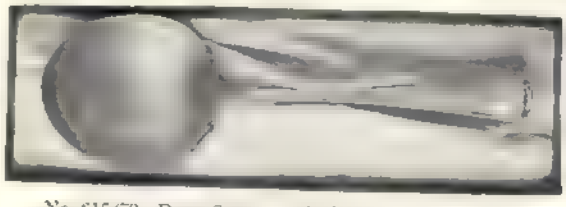
No. 751/79 Cheese Server, hollow handle
Each, $1.08



No. 720/79 Six Bouillon Spoons
Per set, $4.86



No. 681/79 Pickle Fork, long, each, $1.22



No. 615/79 Berry Spoon, each, $2.16; gilt bowl, $2.97

No. 652/79 Six Butter Spreaders
flat handle, per set $4.09
No. 719/79 Six Butter Spreaders
hollow handle, per set $6.48

No. 612/79 Oyster Ladle (illustrated), each, $3.51; gilt bowl, $4.41
No. 614/79 Cream Ladle, each $1.22; gilt bowl, $2.70
No. 611/79 Gravy Ladle, each $1.62; gilt bowl, $2.43
No. 613/79 Medium Ladle each $4.32; gilt bowl, $5.40

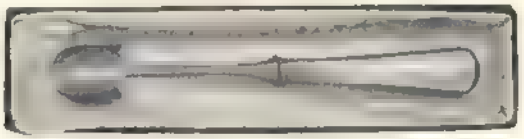
No. 721/79 School Set, Dessert Knife, hollow handle, Dessert Fork and Spoon, Tea Spoon and Napkin Ring, per set, $4.41

*"Silver Plate that Wears"*

# CROMWELL PATTERN

Illustrations One-third Scale

No. 621/79 Pie Server, hollow handle, each $2.70



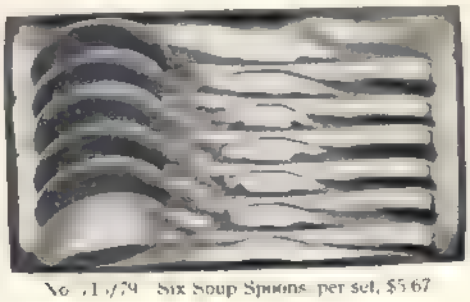
No. 643/79 Cheese Scoop, hollow handle each, $2.16

No. 673/79 Asparagus Tongs, hollow handle, each, $9.72

Iced Tea Spoon
Per doz., $7.02

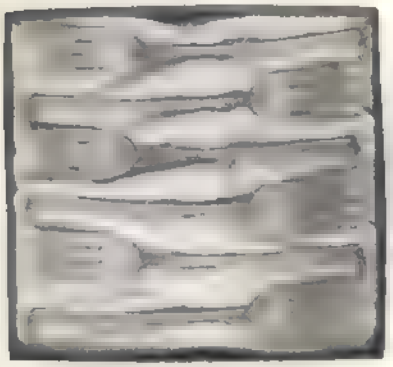
No. 623/79 Sugar Tongs and Six Coffee Spoons, per set, $4.59
No. 624/79 Six Coffee Spoons, without Tongs, per set, $2.54, gilt bowls, $4.16
Sugar Tongs only, each, $1.62

No. 780/79 Ice Cream Knife, hollow handle, each, $4.86



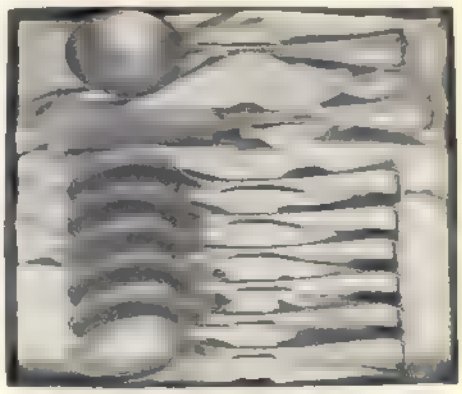
No. 711/79 Six Soup Spoons, per set, $5.67

No. 785/79 Poultry Shears, hollow handle, each, $7.56



No. 17/79 Six Individual Salad Forks
Per set, $5.13

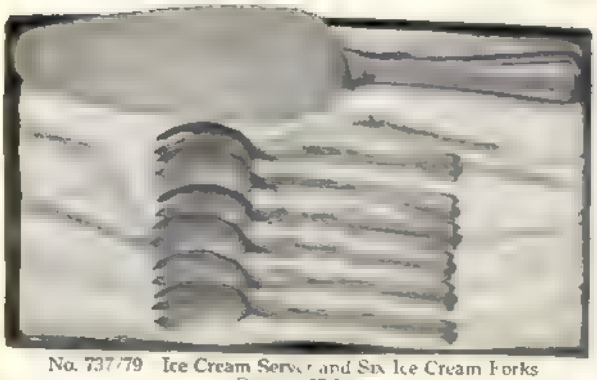
No. 702/79 Butter Knife, Sugar Shell and Cream Ladle, per set, $3.51



No. 710/79 Sugar Shell, Butter Knife and Six Tea Spoons, per set, $4.86

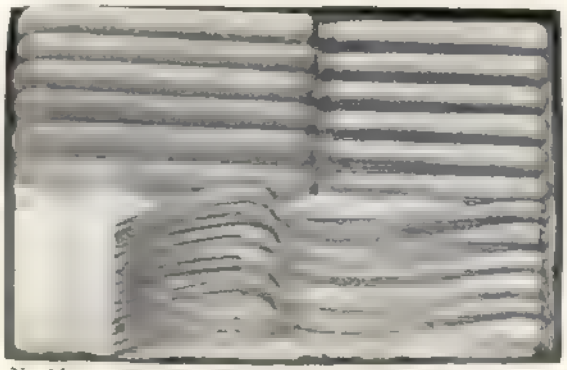
# CROMWELL PATTERN

Illustrations One-third Scale

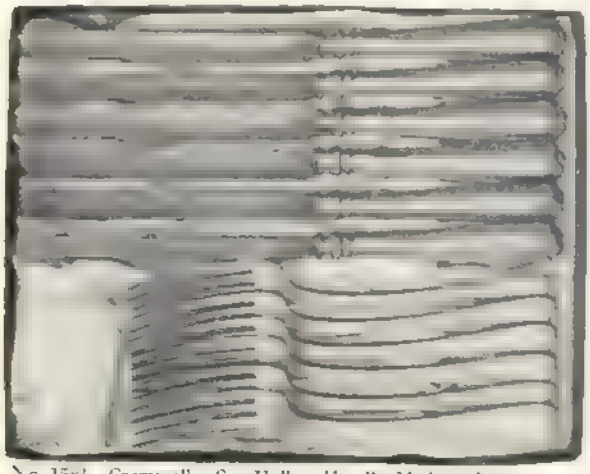


No. 737/79 Ice Cream Server and Six Ice Cream Forks
Per set, $7.29

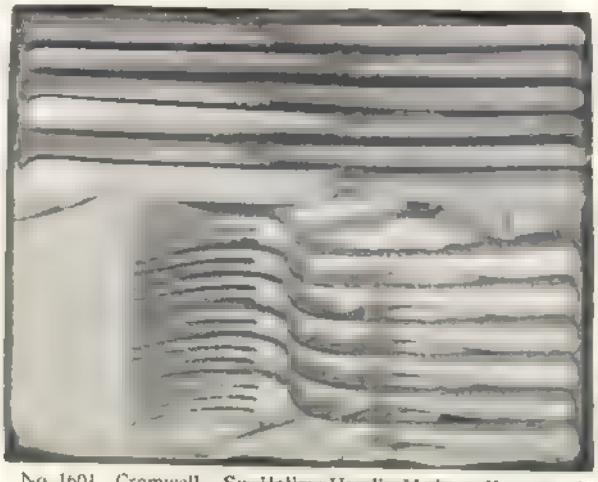
No. 732/79
Bread Knife
hollow
handle
Each, $2.16



No. 159½ Cromwell. No. 53 Medium Knives and Cromwell Flat Handle Medium Forks, $9.23
No. 156½ Cromwell. Dessert, $8.64



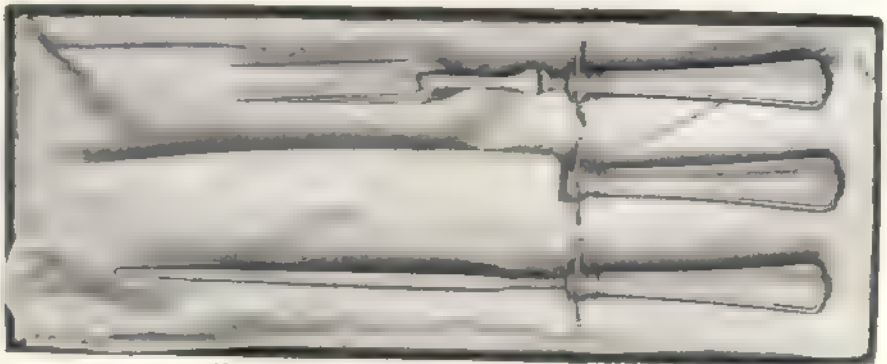
No. 158½ Cromwell. Six Hollow Handle Medium Knives and Flat Handle Medium Forks, per set, $13.77
No. 159½ Cromwell. Dessert, per set, $12.69



No. 160½ Cromwell. Six Hollow Handle Medium Knives and Forks, per set, $17.28
No. 161½ Cromwell. Six Hollow Handle Medium Knives and Dessert Forks, per set, $16.74
No. 162½ Cromwell. Six Hollow Handle Dessert Knives and Forks, per set, $16.20

No. 2 Fruit Knife

No. 738/79 Six Hollow Handle No. 1 Fruit Knives, per set, $6.48
No. 650/79 Six Hollow Handle No. 2 Fruit Knives, per set, $6.48
No. 739/79 Six Hollow Handle No. 2 Fruit Knives, saw back, per set, $7.29



| | | | |
|---|---|---|---|
| No. 657/79 | Carving Set, 3 pieces, | per set, | $10.80 |
| No. 658/79 | Game Set, 2 pieces, | " " | 7.56 |
| No. 733/79 | Breakfast Set, 2 pieces, | " " | 4.86 |
| No. 734/79 | Breakfast Set, 3 pieces, | " " | 7.02 |

Nickel Silver, Silver Soldered, Hollow Handles, Steel Blades

# Big Ben

*Retailers' names printed on all Big Ben dials.*

IN order to insure proper distribution, no Big Ben shipments will be made, until further notice, without having the retailers' names printed on dials. (Address optional.)

All orders must call for at least a dozen taken in one lot. Freight will be prepaid on all such shipments to points located east of Rocky Mountain line. For all points in New Mexico, Colorado, Wyoming, Montana and Westwards, freight will be paid on quantities of 2 dozen and up.

Requirements must be placed six weeks ahead of time in order to insure prompt delivery.

All Big Bens now come with bridged plates and detachable barrels.—It takes but a minute to replace broken springs.

*Solid mahogany display stand included upon request with initial order.—Mainsprings and any other repair material supplied free.*

In dozen lots, $3.19 each. In case lots of 24, $3.08 each.

Height 7 Inches. Dial 4½ Inches. Rings steadily for 5 minutes or intermittently for 10. Nickel or brass finish.

**Made in La Salle, Illinois, by Westclox**

# The Ironclad

*"It Rings to Beat the Band."*

IT'S a snap to sell an Ironclad; it has so many selling points, tangible, visible selling points—striking, convincing talking points.

If it sells not at sight, it'll sell on hearing. Bring one on the counter—point out how sturdily it stands, how mightily it's shielded, how huskily it's built.—Make them weigh it, make them set the alarm off, make them stop it.

Make them wind the alarm tight and see how long it rings, how true it rings, how loud it rings, then say "*One-fifty, please,*" and bring down another.—Tell them to get it cleaned every other year.

*Dealers' names printed free on [illegible] Repair material furnished free of charge.*

Height 5 inches. Dial 2¾ inches. Weight [illegible] Rings 35 seconds, can be shut off at will.

In broken lots, $1.80 each. In dozen lots, $1.74 each. In case lots of 24, $1.70 each

**Made in La Salle, Illinois, by Westclox**

# The America

*New 1914 Model*

THE America Alarm is 28 years young. When it first came out 'twas joyfully whispered it never would get old. It never has—it's livelier to-day than it ever was.

There must be good reasons —perhaps it's the good looks perhaps it's the good works —perhaps it's the label and perhaps it's the price.

Perhaps it's all these and then probably more. But whatever sells them, it does sell and stay sold. The 1914 model is the best ever—it's dressy, it's tasty, it's neat. The price is the lowest that's been quoted for years.

Americas come in cheerful boxes that stack particularly well into window display pyramids and circles. They are packed 12 in a carton and an order for four of these cartons or 48 clocks entitles you to the free printing of your ad on the clock dials. There's a display rack that comes for the asking, free with case lot orders Every clock comes with Westclox tag attached

*Dealers' name printed free on dials in case lots of 48. Repair material furnished free of charge.*

Six inches high. Dial 4 inches. Alarm shut-off. Packed 12 in a box with advertising matter.

In broken lots, $1.06 each. In case lots of 48, $1.04 each.

**Made in La Salle, Illinois, by Westclox**

# Bull's Eye

*Rings the bell every time.*

HERE'S a splendid little alarm clock that's made for the best jewelry trade. It's called the Bull's Eye because it hits the mark—and it hits it in every way, looks, design and clockmanship.

It's snug, massive, shipshape. — It has a clear, pleasing *long alarm* call and a large, open, distinct face. — The movement is the easiest to get at of any alarm made.—It can be taken out frontwards or backwards, either way you want, without removing either hands or dial. It's suspended in a cast iron ring to which all the case parts, legs, bell post, shut-off, are screwed, not staked.

It's designed specially for the jewelry trade, it retails readily at $1.25 and it comes in a beautiful box that will score a bull's eye in any window display.

*Dealers' names printed free on dials in case lots of 24. Repair material furnished free of charge.*

Dial 4½ inches Height 7 inches. Weight 20 ounces Rings 45 seconds, can be shut off at will.

In broken lots, $1.44 each. In case lots of 24, $1.38 each

**Made in La Salle, Illinois, by Westclox**

## *Essential Features*

*found in all*

## *Waltham Watches*

¶ All Nickel plates are made of Nickel, not Brass, Nickel-Plated.

¶ All Waltham watches have Breguet Hairsprings, hardened and tempered in form.

¶ All Waltham watches, except 1883 Model, in 7 Jewel, are fitted with Meantime Screws.

¶ All Waltham watches, double roller, Riverside grade and above, have Sapphire Roller Pins permanently driven into the roller.

¶ All Waltham watches, except 1883 Model, have Steel Tempered Safety Barrels.

¶ All Waltham watches in Vanguard and Maximus grades have Diamond Endstones.

¶ All Waltham watches have plate jewels in settings.

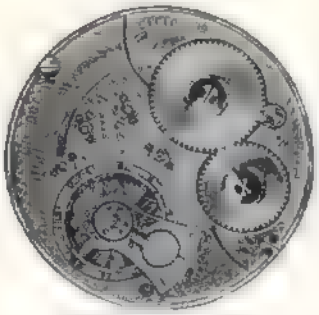
¶ All Waltham watches, with steel escape wheels, have Sapphire Pallet Stones.

RIVERSIDE

THE BEST ADVERTISED WATCH IN THE WORLD

# WALTHAM WATCHES

## 18 SIZE



**VANGUARD. Nickel**

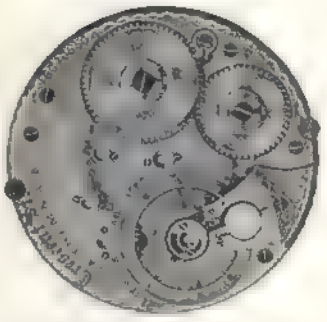
Adjusted to temperature, isochronism and five positions; double roller, steel escape wheel; diamond, fine ruby and sapphire jewels.

| | |
|---|---|
| 23 Jewels, Hunting, Lever Setting | $54.00 |
| 23 Jewels, Open Face, Lever Setting | 54.00 |
| 21 Jewels, Hunting, Lever Setting | 50.90 |
| 21 Jewels, Open Face, Lever Setting | 50.90 |
| 19 Jewels, Hunting, Lever Setting | 46.80 |
| 19 Jewels, Open Face, Lever Setting | 46.80 |
| 23 Jewels, Non-Magnetic, Hunting Lever Setting | 72.00 |
| 23 Jewels, Non-Magnetic, Open Face Pendant Setting | 72.00 |

**No 845. Nickel**

Adjusted to temperature, isochronism and five positions; double roller, steel escape wheel; fine ruby and sapphire jewels.

| | |
|---|---|
| 21 Jewels, Hunting, Lever Setting | $36.00 |
| 21 Jewels, Open Face Lever Setting | 36.00 |



**CRESCENT STREET. Nickel**

Adjusted to temperature, isochronism and five positions; double roller, steel escape wheel, fine ruby and sapphire jewels

| | |
|---|---|
| 21 Jewels Hunting Lever Setting | $41 90 |
| 21 Jewels, Open Face, Lever Setting | 41 90 |
| 19 Jewels Hunting Lever Setting | 40 50 |
| 19 Jewels, Open Face, Lever Setting | 40 50 |

**VANGUARD**
**With Winding Indicator**
**18 Size**

Delivered from factory in nickel skeleton case

| | |
|---|---|
| 23 Jewels, Open Face, Lever Setting | $61 00 |
| 21 Jewels, Open Face, Lever Setting | 58 00 |

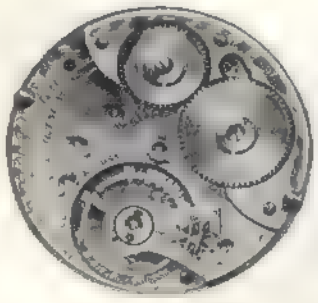
**16 Size**

| | |
|---|---|
| 23 Jewels, Open Face, Lever Setting | 61.00 |

**APPLETON, TRACY & CO.**
**Nickel**

Adjusted to temperature and three positions, double roller, steel escape wheel

| | |
|---|---|
| 17 Jewels, Hunting, Lever Setting | $27 00 |
| 17 Jewels Open Face, Lever Setting | 27.00 |



**P. S. BARTLETT**
**Gilded and Nickeled Damaskeened**

| | |
|---|---|
| 17 Jewels, Open Face, Lever Setting | $18 90 |
| 17 Jewels, O. F., Pendant Setting | 18 90 |

**All orders accepted, subject to prices ruling on date of delivery.**

# WALTHAM WATCHES

## 18 SIZE

**P. S. BARTLETT. No. 87. Nickel**

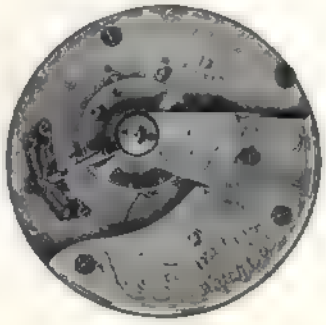
Adjusted to temperature.

| | |
|---|---|
| P. S. B. 17 Jewels, Hunting Lever Setting | $15 30 |
| P. S. B. 17 Jewels Open Face, Pendant Setting | 15 30 |
| No. 87. 17 Jewels, Hunting, Lever Setting | 15.30 |
| No. 87. 17 Jewels, Open Face, Pendant Setting | 15.30 |

**No. 85. Gilded**

Adjusted to temperature.

| | |
|---|---|
| 17 Jewels, Open Face, Pendant Set. | $13.50 |



**No. 825. Nickel**

| | |
|---|---|
| 17 Jewels, Hunting, Lever Setting | $11.70 |
| 17 Jewels, Open Face, Pendant Set | 11 70 |

**No. 820. Nickel**

| | |
|---|---|
| 15 Jewels, Hunting, Lever Set. | $ 9 90 |
| 15 Jewels, Open Face, Pendant Set. | 9 [illegible] |
| 15 Jewels Non-Magnetic Hunting, Lever Setting | 14 40 |
| 15 Jewels, Non-Magnetic, Open Face, Pendant Setting | 14 40 |

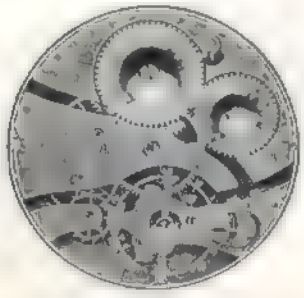
**No. 81. Gilded**

| | |
|---|---|
| 15 Jewels, Hunting, Lever Setting | $9 00 |
| 15 Jewels, Open Face, Pendant Set | 9 00 |

**No. 18. Nickel**

| | |
|---|---|
| 7 Jewels, Hunting, Lever Setting | $7.20 |
| 7 Jewels, Open Face, Pendant Set. | 7 20 |

## 16 SIZE



**RIVERSIDE MAXIMUS. Nickel**

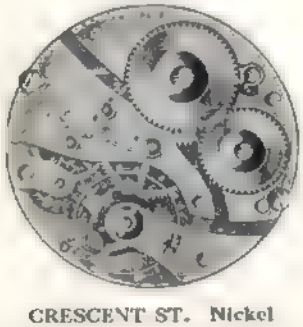
Adjusted to temperature, isochronism and five positions; double roller, steel escape wheel gold train, diamond, fine ruby and sapphire jewels.

| | |
|---|---|
| 23 Jewels, Hunting, Pendant Set | $123 00 |
| 23 Jewels Open Face, Pendant Set | 123 00 |
| 23 Jewels Open Face, Lever Setting | 123 00 |
| 23 Jewels Non-Magnetic Hunting, Pendant Setting | 146.00 |
| 23 Jewels, Non Magnetic, Open Face, Pendant Setting | 146 00 |

**VANGUARD. Nickel**

Adjusted to temperature, isochronism and five positions, double roller, steel escape wheel; diamond, fine ruby and sapphire jewels

| | |
|---|---|
| 23 Jewels, Hunting Pendant Setting | $54 00 |
| 23 Jewels Hunting Lever Setting | 54 00 |
| 23 Jewels Open Face, Pendant Setting | 54 00 |
| 23 Jewels Open Face Lever Setting | 54 00 |
| 19 Jewels, Hunting, Lever Setting | 46 80 |
| 19 Jewels, Open Face, Lever Setting | 46 80 |
| 19 Jewels, Hunting, Pendant Setting | 46.80 |
| 19 Jewels, Open Face, Pendant Set | 46 80 |



**CRESCENT ST. Nickel**

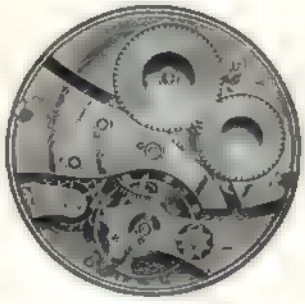
Adjusted to temperature, isochronism and five positions, double roller, steel escape wheel, fine ruby and sapphire jewels.

| | |
|---|---|
| 21 Jewels, Hunting, Pendant Setting | $41 90 |
| 21 Jewels, Hunting, Lever Setting | 41 90 |
| 21 Jewels, Open Face, Pendant Set. | 41.90 |
| 21 Jewels, Open Face, Lever Setting | 41.90 |

**All orders accepted, subject to prices ruling on date of delivery.**

# WALTHAM WATCHES

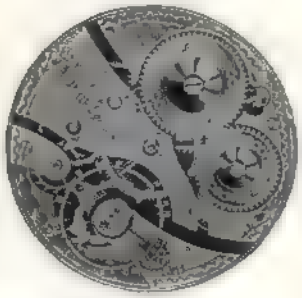
## 16 SIZE



**RIVERSIDE. Nickel.**

Adjusted to temperature, isochronism and five positions; double roller, steel escape wheel fine ruby and sapphire jewels.

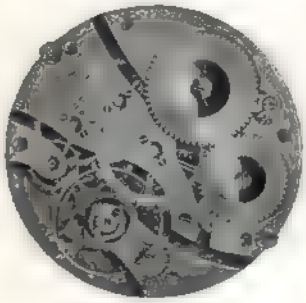
| | |
|---|---|
| 19 Jewels, Hunting, Pendant Set | $43.00 |
| 19 Jewels, Open Face, Pendant Set | 43.00 |
| 19 Jewels, Open Face, Lever Set | 43.00 |
| 19 Jewels, Non-Magnetic, Hunting, Pendant Set | 62.00 |
| 19 Jewels, Non-Magnetic, Open Face, Pendant Set | 62.00 |



**No. 645. Nickel.**

Adjusted to temperature, isochronism and five positions; double roller, steel escape wheel; fine ruby and sapphire jewels.

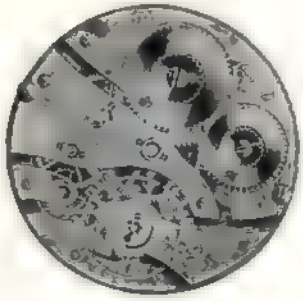
| | |
|---|---|
| 21 Jewels, Open Face, Lever Set | $40.00 |



**ROYAL. Nickel.**

Adjusted to temperature and three positions.

| | |
|---|---|
| 17 Jewels, Hunting, Pendant Set | $26.10 |
| 17 Jewels, Open Face, Pendant Set | 26.10 |



**P. S. BARTLETT. Nickel.**

Adjusted to temperature.

| | |
|---|---|
| 17 Jewels, Hunting, Pendant Set | $22.50 |
| 17 Jewels, Open Face, Pendant Set | 22.50 |
| 17 Jewels, Open Face, Lever Set | 22.50 |

**No. 635. Nickel.**

Adjusted to temperature; steel escape wheel, sapphire pallets.

| | |
|---|---|
| 17 Jewels Hunting, Pendant Set | $20.00 |
| 17 Jewels, Open Face, Pendant Set | 20.00 |
| 17 Jewels, Open Face, Lever Set | 20.00 |

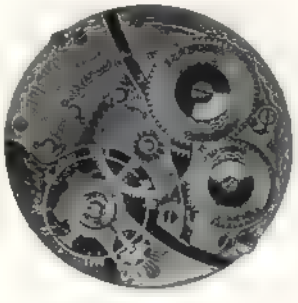
**No. 630. Nickel.**

Adjusted to temperature.

| | |
|---|---|
| 17 Jewels, Hunting, Pendant Set | $18.90 |
| 17 Jewels, Open Face, Pendant Set | 18.90 |
| 17 Jewels, Open Face, Lever Set | 18.90 |

**No. 625. Nickel.**

| | |
|---|---|
| 17 Jewels, Hunting, Pendant Set | $17.10 |
| 17 Jewels, Open Face, Pendant Set | 17.10 |



**No. 620. Nickel.**

| | |
|---|---|
| 15 Jewels, Hunting, Pendant Set | $13.50 |
| 15 Jewels, Open Face, Pendant Set | 13.50 |

**No. 610. Nickel.**

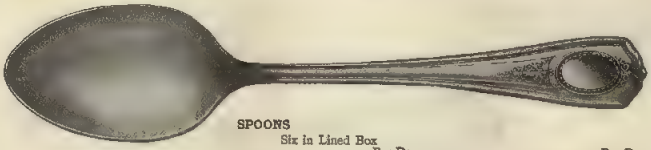
| | |
|---|---|
| 7 Jewels, Hunting, Pendant Set | $8.50 |
| 7 Jewels, Open Face, Pendant Set | 8.50 |

**All orders accepted, subject to prices ruling on date of delivery.**

# COMMUNITY SILVER

**Turn over a new leaf. If you are not already carrying Community Silver, do so. Community Silver has the heaviest plate, is the best advertised and your profit is fully protected.**

**Shown below is the Louis XVI design. In exquisite grace and delicacy of line it harmonizes perfectly with the period it represents—the later French Renaissance—while in rich simplicity it rivals the best examples of Sterling Silver.**



**SPOONS**

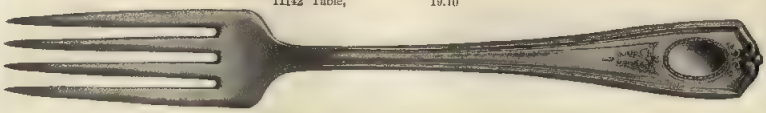
Six in Lined Box

| | | Per Doz. |
|---|---|---|
| 11137 | After Dinner Coffee, | $9.57 |

| | | Per Doz. |
|---|---|---|
| 11138 | Gilt After Dinner Coffee, | $14.75 |

Six in Unlined Box

| | | |
|---|---|---|
| 11139 | Five O'Clock Tea, | 9.57 |
| 11140 | Tea, | 9.57 |
| 11141 | Dessert, | 17.37 |
| 11142 | Table, | 19.10 |



**FLAT HANDLE FORKS**

Six in Unlined Box

| | | | |
|---|---|---|---|
| 11143 | Dessert, | Per Doz., | $17.37 |
| 11144 | Medium, | " " | 19.10 |

**HOLLOW HANDLE KNIVES**

Six in Flannel Roll

| | | | |
|---|---|---|---|
| 11145 | Medium, | Per Doz., | $30.75 |
| 11146 | Dessert, | " " | 29.70 |
| 11147 | Medium, Scimitar and Swaged, | " " | 31.27 |
| 11148 | Dessert, " " " | " " | 30.25 |

**HOLLOW HANDLE FORKS**

Six in Flannel Roll

| | | | |
|---|---|---|---|
| 11149 | Medium | Per Doz. | $30.75 |
| 11150 | Dessert, | " " | 29.70 |

Reproduction same size.

LOUIS XVI DESIGN

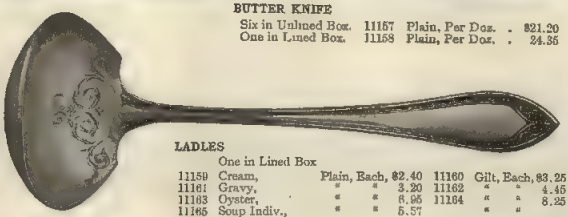
Community Silver Patterns which are protected by U. S. Letters Patent must not be advertised or sold below our established re-sale prices. These prices may be obtained from us.

# COMMUNITY SILVER

**BERRY OR SALAD SPOON**
One in Lined Box
11151 Plain, Each, $8.60 11152 Gilt, Each, $4.90

**SUGAR SHELL**
Six in Unlined Box
11153 Plain, Per Doz. $18.07 11154 Gilt, Per Doz $25.03
One in Lined Box
11155 Plain, Per Doz. $21.37 11156 " " " 28.35

**BUTTER KNIFE**
Six in Unlined Box. 11157 Plain, Per Doz. . $21.20
One in Lined Box. 11158 Plain, Per Doz. . 24.35



**LADLES**
One in Lined Box

| | | | | | | |
|---|---|---|---|---|---|---|
| 11159 | Cream, | Plain, Each, | $2.40 | 11160 | Gilt, Each, | $3.25 |
| 11161 | Gravy, | " " | 3.20 | 11162 | " " | 4.45 |
| 11163 | Oyster, | " " | 6.95 | 11164 | " " | 8.25 |
| 11165 | Soup Indiv., | " " | 5.57 | | | |
| 11167 | Med. Soup, | " " | 8.70 | 11166 | " " | 10 43 |
| 11169 | Hot. H'dle Punch, | " " | 14.50 | 11168 | " " | 16.65 |

**COLD MEAT FORK**
One in Lined Box
11170 Plain, Each, $2.32 11171 Gilt, Each, $3.20

Reproduction three-fourths size.

SHERATON DESIGN

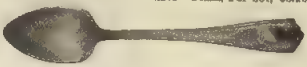
**Community Silver Patterns which are protected by U. S. Letters Patent must not be advertised or sold below our established re-sale prices. These prices may be obtained from us.**

# COMMUNITY SILVER

**SOUP SPOON**
Six in Unlined Box. 11172 Per Doz., $19.10

**BOUILLON SPOON**
Six in Lined Box. 11173 Plain, Per Set, $8.20

**HOLLOW HANDLE BUTTER SPREADER**
Six in Lined Box. 11174 Per Set, $13.90



**ORANGE SPOON**
Six in Lined Box
11175 Plain, Per Set, $6.25 11176 Gilt, Per Set, $9.75

**HOLLOW HANDLE ORANGE KNIFE**
Six in Lined Box. 11177 Per Set, $14.70

**SUGAR TONGS**
One in Lined Box. 11178 Each, $2.57

**PIE FORK**
Six in Unlined Box. 11179 Per Doz., $17.37

**BERRY FORK**
Six in Lined Box
11180 Plain, Per Set, $5.47 11181 Gilt, Per Set, $8.10

**FLAT HANDLE BUTTER SPREADER**
Six in Lined Box
11182 Plain, Per Set, $7.63

**FOOD PUSHER**
One in Lined Box. 11183 Each, $1.25

**PICKLE FORK**
One in Lined Box
11184 Plain, Each, $1.90 11185 Gilt, Each, $2.47

**BABY SPOON**
One in Lined Box
11186 Plain Each, $1.25 11187 Gilt, Each, $1.70

**OYSTER FORK**
Six in Lined Box
11188 Plain, Per Set, $6.10

**HOLLOW HANDLE FRUIT KNIFE**
Six in Lined Box. 11189 Per Set, $13.90

**HOLLOW HANDLE PIE SERVER**
One in Lined Box. 11190 Each, $5.25

Reproduction one-half size.

LOUIS XVI DESIGN

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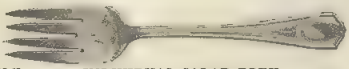
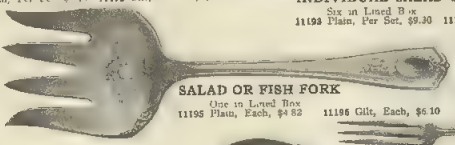
# COMMUNITY SILVER

**ICE CREAM FORK**
Six in Lined Box
11191 Plain, Per Set, $5.13 11192 Gilt, Per Set, $10.60



**INDIVIDUAL SALAD FORK**
Six in Lined Box
11193 Plain, Per Set, $9.30 11194 Gilt, Per Set, $12.77



**SALAD OR FISH FORK**
One in Lined Box
11195 Plain, Each, $4.82 11196 Gilt, Each, $6.10

**LEMON OR RELISH FORK**
11197 One in Lined Box, Each, $1.25

**SMALL COLD MEAT FORK**
One in Lined Box
11198 Plain, Each, $3.90 11199 Gilt, Each, $5.45

**PRESERVE SPOON**
One in Lined Box
11200 Plain Each, $2.67 11201 Gilt, Each, $3.53

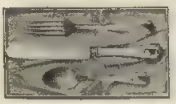
**LETTUCE FORK**
One in Lined Box
11202 Plain Each, $3.15 11203 Gilt, Each, $3.98

**ICED TEA SPOON**
11204 Six in Unlined Box, Plain, Per Doz., $12.50

**HOLLOW HANDLE CHEESE SCOOP**
11205 One in Lined Box, Each, $4.65

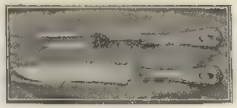
**FISH KNIFE**
One in Lined Box
11206 Plain, Each, $6.43 11207 Gilt, Each, $7.72

Reproduction one-half size.



**THREE PIECE CHILD SET**
One Set in Lined Box
11208 Hollow Handle Knife, Per Set, $5.57
11209 Flat Nickel Knife, " " 3.82

**LARGE CARVING SET**
One Set in Lined Box
11210 Per Set, $20.87



**SMALL CARVING SET**
One Set in Lined Box
11211 Per Set, $9.57

Reproduction one-fourth size.

LOUIS XVI DESIGN

**Community Silver must not be advertised or sold below the established re-sale prices. These prices may be obtained from us.**

# COMMUNITY SILVER

**Carry a strong line if you want big sales. Community Silver is the best advertised, has the heaviest plate, and the most beautiful designs.**

**The Sheraton, the latest pattern in Community Silver, is a masterpiece of artistic designing. Simple but exquisitely beautiful in outline and ornamentation, it rivals Sterling Silver in distinction.**

**SPOONS**

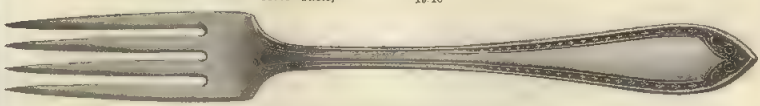
Six in Lined Box

| | | Per Doz. |
|---|---|---|
| 11065 | After Dinner Coffee, | $9.57 |

Six in Unlined Box

| | | |
|---|---|---|
| 11067 | Five O Clock Tea, | 9 57 |
| 11068 | Tea, | 9.57 |
| 11069 | Dessert, | 17.37 |
| 11070 | Table, | 19 10 |

| | | Per Doz. |
|---|---|---|
| 11066 | Gilt After Dinner Coffee, | $14.75 |



**FLAT HANDLE FORKS**

Six in Unlined Box

| | | |
|---|---|---|
| 11071 | Dessert, Per Doz. | $17.37 |
| 11072 | Medium, " " | 19 10 |

**HOLLOW HANDLE KNIVES**

Six in Flannel Box

| | | |
|---|---|---|
| 11073 | Medium, | Per Doz., $30.75 |
| 11074 | Dessert, | " " 29.70 |
| 11075 | Medium, Scimitar and Swaged | " " 31.27 |
| 11076 | Dessert, " " " | " " 30.25 |

**HOLLOW HANDLE FORKS**

Six in Flannel Roll

| | | |
|---|---|---|
| 11077 | Medium, | Per Doz., $30.75 |
| 11078 | Dessert, | " " 29.70 |

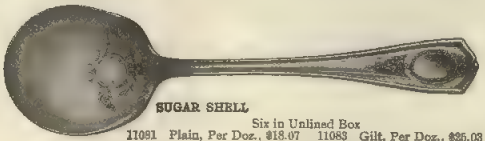
Reproduction same size.

SHERATON DESIGN

Community Silver Patterns which are protected by U. S. Letters Patent must not be advertised or sold below our established re-sale prices. These prices may be obtained from us.

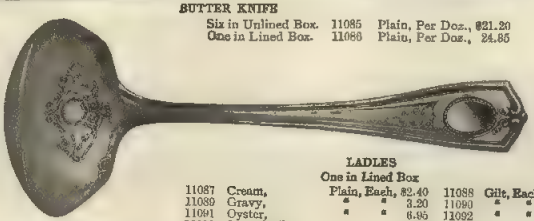
# COMMUNITY SILVER

**BERRY OR SALAD SPOON**
One in Lined Box
11079 Plain, Each, $3.60 11080 Gilt, Each, 4.90



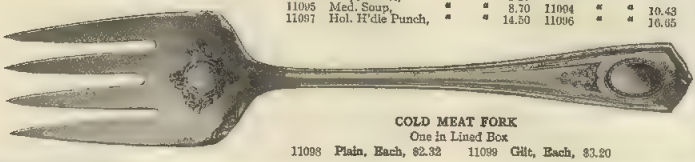
**SUGAR SHELL**
Six in Unlined Box
11081 Plain, Per Doz., $18.07 11083 Gilt, Per Doz., $25.03
One in Lined Box.
11082 Plain, Per Doz., $21.37 11084 Gilt, Per Doz., $28.35

**BUTTER KNIFE**
Six in Unlined Box. 11085 Plain, Per Doz., $21.20
One in Lined Box. 11086 Plain, Per Doz., 24.85



**LADLES**
One in Lined Box

| | | | | | | |
|---|---|---|---|---|---|---|
| 11087 | Cream, | Plain, Each, | $2.40 | 11088 | Gilt, Each, | $3.25 |
| 11089 | Gravy, | " " | 3.20 | 11090 | " " | 4.45 |
| 11091 | Oyster, | " " | 6.95 | 11092 | " " | 8.25 |
| 11093 | Soup, Indiv., | " " | 5.57 | | | |
| 11095 | Med. Soup, | " " | 8.70 | 11094 | " " | 10.43 |
| 11097 | Hol. H'dle Punch, | " " | 14.50 | 11096 | " " | 16.65 |



**COLD MEAT FORK**
One in Lined Box
11098 Plain, Each, $2.32 11099 Gilt, Each, $3.20

Reproduction three-fourths size.

LOUIS XVI DESIGN

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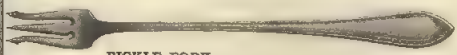
# COMMUNITY SILVER

**SOUP SPOON**
Six in Unlined Box. 11100 Per Doz., $19.10

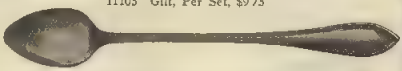
**BOUILLON SPOON**
Six in Lined Box. 11101 Plain, Per Set, $8.20



**PICKLE FORK**
One in Lined Box.
11102 Plain, Each, $1.90 11103 Gilt, Each, $2.47

**ORANGE SPOON**
Six in Lined Box. 11104 Plain, Per Set, $6.25
11105 Gilt, Per Set, $9.75

**FLAT HANDLE BUTTER SPREADER**
Six in Lined Box. 11106
Plain, Per Set, $7.63



**ICED TEA SPOON**
Six in Unlined Box. 11107 Plain, Per Doz., $12.50

**OYSTER FORK**
Six in Lined Box. 11108 Per Set, $6.10

**SUGAR TONGS**
One in Lined Box. 11109 Each, $2.57

**HOLLOW HANDLE ORANGE KNIFE**
Six in Lined Box. 11110 Per Set, $14.70

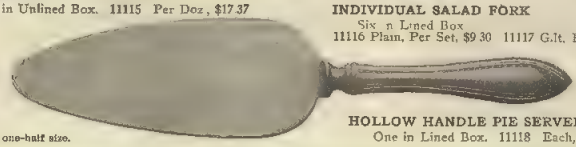
**HOLLOW HANDLE FRUIT KNIFE**
Six in Lined Box. 11111 Per Set, $13.90

**HOLLOW HANDLE FORK**
Six in Flannel Roll
11112 Medium, Per Doz., $30.75
11113 Dessert, Per Doz., $29.70

**HOLLOW HANDLE BUTTER SPREADER**
Six in Lined Box. 11114 Per Set, $13.90

**PIE FORK**
Six in Unlined Box. 11115 Per Doz., $17.37

**INDIVIDUAL SALAD FORK**
Six in Lined Box
11116 Plain, Per Set, $9.30 11117 Gilt, Per Set, $12.77



**HOLLOW HANDLE PIE SERVER**
One in Lined Box. 11118 Each, $5.25

Reproduction one-half size.

SHERATON DESIGN

**Community Silver must not be advertised or sold below the established re-sale prices. These prices may be obtained from us.**

# COMMUNITY SILVER

**HOLLOW HANDLE CHEESE SCOOP**
11119 One in Lined Box. Each, $4.63

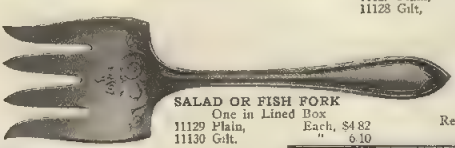
**ICE CREAM FORK**
Six in Lined Box
11120 Plain, Per Set, $7.15
11121 Gilt, " " 10.60

**BABY SPOON**
One in Lined Box
11122 Plain, Each, $1.25
11123 Gilt, " 1.70

**FOOD PUSHER**
One in Lined Box
11124 Each, $1.25

**PRESERVE SPOON**
One in Lined Box
11125 Plain, Each, $2.67
11126 Gilt, " 3.53

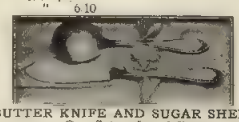
**SMALL COLD MEAT FORK**
One in Lined Box
11127 Plain, Each, $1.90
11128 Gilt, " 2.45



**SALAD OR FISH FORK**
One in Lined Box
11129 Plain, Each, $4.82
11130 Gilt. " 6.10

Reproduction one-half size.

**SMALL CARVING SET**
One Set in Lined Box
11131 Per Set, $9.57



**BUTTER KNIFE AND SUGAR SHELL**
One Set in Lined Box
11132 Plain, Per Set, $3.47
11133 With Gilt Sugar " 4.10

**THREE PIECE CHILD SET**
One Set in Lined Box
11134 Hollow Handle Knife, Per Set, $5.57
11135 Flat Nickel Knife, " " 3.82

Reproduction one-fourth size.

**LARGE CARVING SET**
One Set in Lined Box
11136 Per Set, $20.87

SHERATON DESIGN

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# ANCHORS

## DIRIGO FOLDING ANCHORS

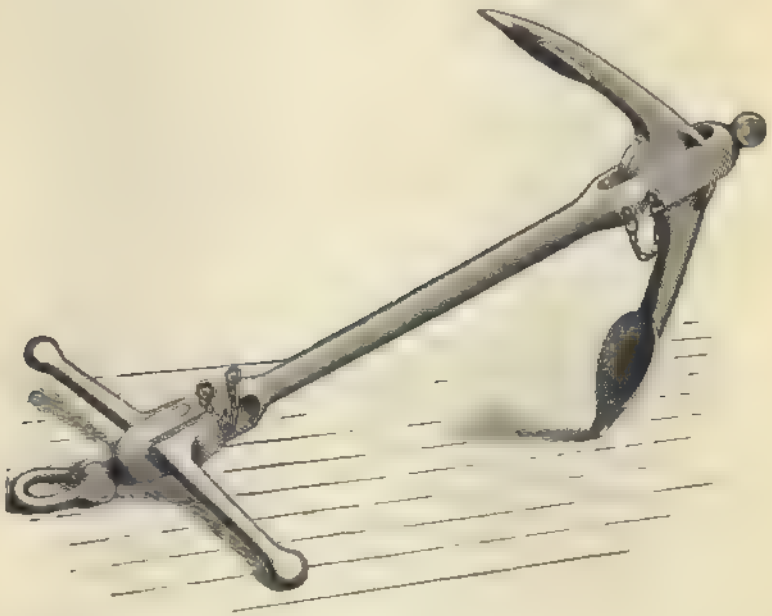


Fig 1619

### GALVANIZED IRON

| Size, weight | pounds | 4 | 8 | 10 | 12 | 16 | 20 |
|---|---|---|---|---|---|---|---|
| Length | inches | 17 | 22 | 23 | 25 | 28 | 30 |
| Price | each | 2.50 | 2.00 | 3.00 | 3.50 | 4.50 |
| Size, weight | pounds | 25 | 30 | 37 | 41 | 55 | 65 | 70 |
| Length | inches | 33 | 34 | 36 | 38 | 41 | 42 | 44 |
| Price | per pound | .20 | .20 | .20 | .20 | .20 | .20 | .20 |

### BRASS For Canoes

| Size, weight | pounds | 4 |
|---|---|---|
| Price, pair | each | 4.00 |
| " Polished | " | 5.00 |
| " Nickel-plated | " | 5.50 |

# ANCHORS

## KEDGE ANCHORS

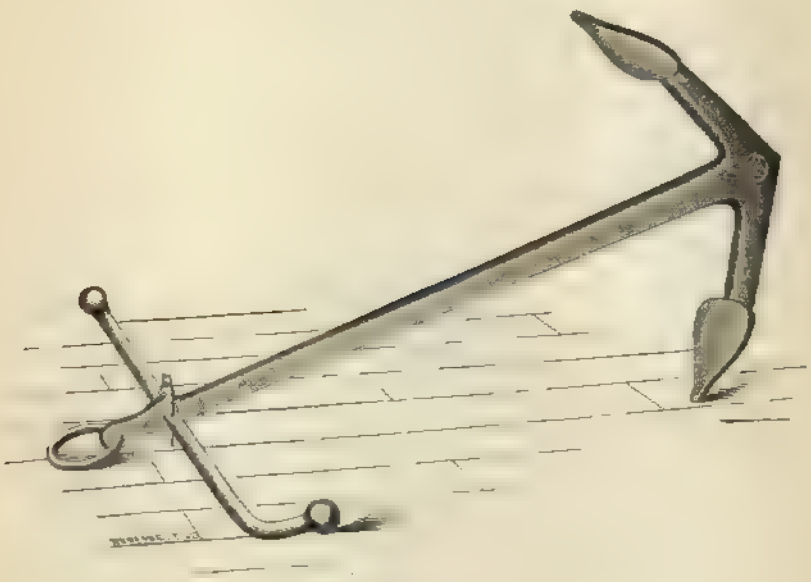


Fig 1620

| Size, weight | pounds | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|
| Length | inches | 18 | 19 | 20 | 21 | 23 | 23 |
| Price, japanned | each | 58 | 67 | 75 | 83 | 93 | 1 00 |
| " Galvanized | " | 70 | 80 | 95 | 1 07 | 1 20 | 1 30 |

| Size, weight | pounds | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|
| Length | inches | 24 | 27 | 28 | 29 | 29 | 31 |
| Price, japanned | each | 1 08 | 1 17 | 1 25 | 1 33 | 1 42 | 1.50 |
| " Galvanized | " | 1 42 | 1 53 | 1 63 | 1.76 | 1 88 | 2.00 |

Sizes, we get 25 to 550 pounds, prices on application. Larger sizes made to order.

## GALVANIZED ANCHOR KEYS

| Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Length...inches | 1¾ | 2½ | 3¼ | 4½ | 4⅝ | 4¾ | 6 | 6¾ |
| For anchors lbs. | 4 to 8 | 9 to 20 | 25 to 45 | 50 to 65 | 70 to 100 | 110 to 175 | 200 to 350 | 400 to 550 |
| Price..per dozen | .50 | .75 | 1.20 | 1.50 | 1.80 | 2.20 | 3.00 | 5.00 |

# ANCHORS

## SWIVEL ANCHORS Forged Steel Shanks

Fig. 1621

| Size, weight | pounds | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 4 |
|---|---|---|---|---|---|---|---|---|---|
| Length | inches | 12 | 14 | 15 | 17 | 18 | 19 | 21 | 23 |
| Price, galvanized iron | each | 1.20 | 2.00 | 2.75 | 3.50 | 4.25 | 5.00 | 5.75 | 6.20 |
| Size, weight | pounds | 50 | 60 | 80 | 100 | 125 | 150 | 175 | 200 |
| Length | inches | 26 | 28 | 30 | 31 | 32 | 34 | 34 | 35 |
| Price, galvanized iron | each | 7.30 | 8.50 | 11.00 | 13.50 | 16.75 | 20.25 | 23.50 | 27.00 |
| " Japanned steel | " | | ..... | ..... | 8.50 | 10.65 | 12.75 | 14.90 | 17.00 |

Larger sizes made to order.

## TRAWL OR DORY ANCHORS—Stiff Stock

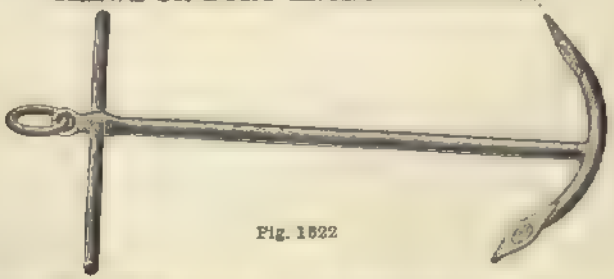


Fig. 1622

| Size, weight | pounds | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 14 | 16 | 18 | 2 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price, Japanned | each | 60 | 65 | 55 | 70 | 85 | 1.00 | 1.15 | 1.30 | 1.50 | 1.70 | 1.85 | 2.75 |
| " Galvanized | " | 57 | 65 | 72 | 80 | 85 | 1.00 | 1.15 | 1.30 | 1.50 | 1.70 | 1.85 | 2.75 |

# ANCHORS

## CAST BABBITT ANCHORS

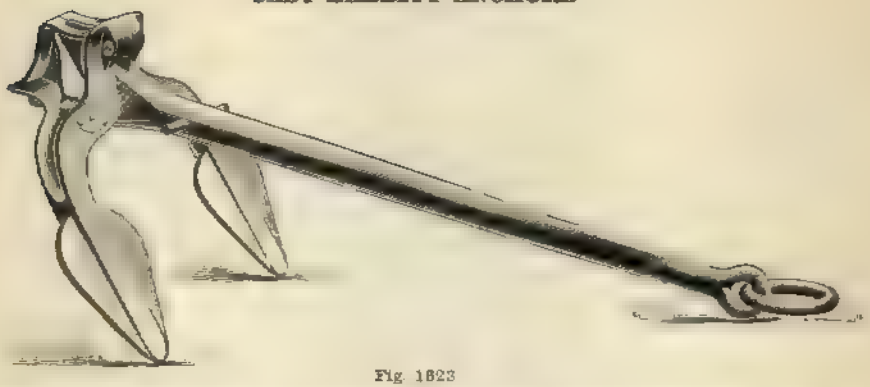


Fig. 1623

| Size, weight | pounds | 6 | 8 | 10 | 12 | 4 | 18 | 25 | 30 | 35 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length | inches | 28 | 28 | 30 | 30 | 31 | 34 | 32 | 36 | 37 |
| Price, galvanized | each | 80 | 1 00 | 1 35 | 1 80 | 2 30 | 3 10 | 3 [illegible] | 4 00 | |

| Size, weight | pounds | 40 | 50 | 75 | 100 | 125 | 150 | 200 | 250 |
|---|---|---|---|---|---|---|---|---|---|
| Length | inches | 41 | 42 | 44 | 50 | 50 | 51 | 51 | 52 |
| Price, galvanized | each | 4.60 | 5.15 | 7.00 | 9.50 | 11.80 | 14.20 | 18.90 | 25.00 |

## MUSHROOM ANCHORS

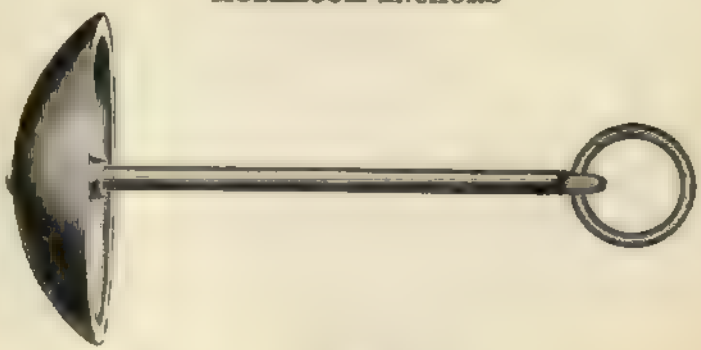


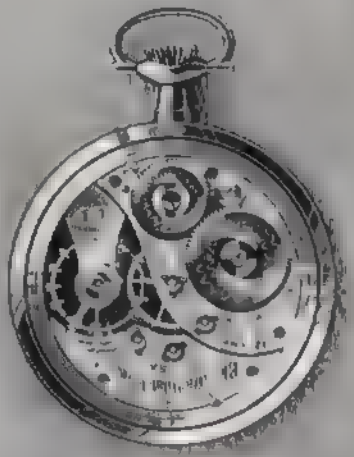
Fig. 1624

| Size, weight | pounds | 10 | 15 | 20 | 25 | 35 | 50 | 75 | 100 |
|---|---|---|---|---|---|---|---|---|---|
| Price, japanned | each | .60 | 80 | 1 20 | 1 50 | 2 10 | 2 25 | 3 38 | 4 50 |
| " Galvanized | " | 80 | 1 20 | 1 60 | 2 00 | 2 80 | 3 25 | 4 88 | 6 50 |

| Size, weight | pounds | 150 | 200 | 250 | 300 | 350 | 400 | 500 | |
|---|---|---|---|---|---|---|---|---|---|
| Price, japanned | each | 6 75 | 9.00 | 11.25 | 13 50 | 15 75 | 18 00 | 22 50 | |
| " Galvanized | " | 9 75 | 13 00 | 16 25 | 19 50 | 22 75 | 26 00 | 32 50 | |

Larger sizes made to order.

# Elgin Watches



25-Year Filled Case $49.00
14k Single Cap Case $62.00
14k Jointed Case $75.00
17 Jewels Adj. O. F.

25-Year Filled Case $40.00
14k Single Cap Case $54.00
14k Jointed Case $69.00
17 Jewels O. F.

Thinness of Lord Elgin

25-Year Filled Case $34.00
14k Single Cap Case $48.00
14k Jointed Case $61.00
15 Jewels O. F.

*These complete open face Pendant Set watches are cased at the factory and timed in the cases. The Lord Elgin Series are the thinnest American watches furnished with enamel dials. 17 jewel grades have double roller escapements. For the complete description of these, see the last pages of this insert.*

*Lord Elgin Series*

*Fourteen Size Movements*

*All the above movements are Pendant Set. List prices for movements only. For complete description of these, see the last pages of this insert.*

*Twelve Size Movements*

# Elgin Movements

344 Hunting $17.10
345 Open Face $17.10
17 Jewels

311 Hunting $13.50
315 Open Face $13.50
15 Jewels

301 Hunting $9.50
303 Open Face $9.50
7 Jewels

295 15 Jewels $10.80
286 7 Jewels $7.60
0 Size Hg.

*All the above movements are Pendant Set. List prices for movements only. For complete description of these, see the last pages of this insert.*

*Twelve Size Movements*

*All these movements are Pendant Set. List prices for movements only. Lady Elgins and Lady Raymond are sold as complete watches. Cases cost extra. For complete description see last pages of this insert*

## 0 Size, 5-0 Size, 10-0 Size Movements

# Elgin Watches

*All the above movements are Lever Set. The only three-quarter plate 18 size thin models made. See extra thin Veritas cases on next page. List prices for movements only. For complete description of these, see the last pages of this insert.*

## *Eighteen Size Movements*

**Minute Numerical Dial**
No Extra Charge

**Winding Indicator**
$7.00 Extra

**Forty-Nine Dial**
No Extra Charge

**Edge View**

*Complete Veritas Model Watches. The open face 18 size Veritas model grades are supplied as movements only or as complete watches fitted and timed in screw back and bezel thin model Veritas cases. The thinnest 18 size watches made. For prices see last pages of this insert*

*Eighteen Size Movements*

*All these movements are Lever Set. List prices for movements only. Three-quarter plate movements above may be had in the Vernon dust proof cases illustrated and described on the preceding page. For complete description of these, see the last pages of this insert.*

## *Eighteen Size Movements*

*Prices of Lady Elgin Bracelet Watches on application. Lady Elgin Bracelet Watches and the Men's Wrist Watches are the most practical made, having 7 jewel double roller escapement.*

# Factory Descriptions

## 18 Size, Three-quarter Plate Model

**VERITAS, O. F., Nickel** — **23 Jewels**

Lever Setting for Railroad Service. Pendant Winding. Twenty-three diamond ruby and sapphire jewels. Gold jewel settings. Bi-metallic balance running in jewels. *Double-roller escapement.* Steel escape wheel. Lever escapement. Pallet arbor pivoted in cap-jewels. Exposed pallet stones. Compensating balance, pivots running on diamonds. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates beautifully damaskeened and finely finished.

**VERITAS, Htg.** / **VERITAS, O. F.,** } **Nickel** — **21 Jewels**

Lever Setting for Railroad Service. Pendant Winding. Twenty-one diamond ruby and sapphire jewels. Gold jewel settings. *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Pallet arbor cone-pivoted and cap-jeweled. Escape pinion cone-pivoted and cap-jeweled. Compensating balance, pivots running on diamonds. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates beautifully damaskeened and finely finished.

**B. W. RAYMOND Htg.** / **B. W. RAYMOND, O. F.** — **Nickel** — **21 Jewels**

Lever setting for Railroad Service. Pendant Winding. Twenty-one diamond ruby and sapphire jewels. Gold jewel settings. *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Pallet arbor cone-pivoted and cap-jeweled. Escape pinion cone-pivoted and cap-jeweled. Compensating balance, pivots running on diamonds. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates beautifully damaskeened and finely finished.

**FATHER TIME Htg.** / **FATHER TIME, O. F.** — **Nickel** — **21 Jewels**

Lever Setting, for Railroad Service. Pendant Winding. Twenty-one diamond ruby and sapphire jewels. Gold jewel settings. *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Pallet arbor cone-pivoted and cap-jeweled. Escape pinion cone-pivoted and cap-jeweled. Compensating balance, pivots running on diamonds. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates beautifully damaskeened and finely finished.

**B. W. RAYMOND, O. F.** — **Nickel** — **19 Jewels**

Lever Setting, for Railroad Service. Pendant Winding. Nineteen diamond ruby and sapphire jewels. Gold jewel settings. Hair-spring running in jewels. *Double-roller escapement.* Steel escape wheel. Exposed pallet stones. Pallet arbor cone-pivoted and cap-jeweled. Compensating balance, pivots running on diamonds. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates beautifully damaskeened and finely finished.

**B. W. RAYMOND, O. F., Nickel** — **17 Jewels**

Lever Setting, for Railroad Service. Pendant Winding. Seventeen ruby and sapphire jewels. Gold jewel settings. *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Compensating balance. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates damaskeened and finely finished.

**G. M. WHEELER, Htg.** / **G. M. WHEELER, O. F.,** } **Nickel** — **17 Jewels**

Lever Setting. Pendant Winding. Seventeen jewels (settings). Ruby and sapphire balance jewels. *Double-roller escapement.* Steel escape wheel. Exposed pallet stones. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Plates beautifully damaskeened. Engraving inlaid with gold.

## 18 Size, Full Plate Model

**No. 348, Htg.** / **No. 349, O. F.,** } **Nickel** — **21 Jewels**

Lever Setting for Railroad Service. Pendant Winding. Twenty-one ruby and sapphire jewels (settings). *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Pallet arbor cone-pivoted and cap-jeweled. Escape pinion cone-pivoted and cap-jeweled. Compensating balance, pivots running on diamonds. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Patent recoiling click. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates damaskeened and finely finished.

**No. 378, Htg. Lever Set** / **No. 379, O. F. Pendant Set** — **Nickel** — **17 Jewels**

Pendant Winding. Seventeen jewels (settings). Ruby and sapphire balance and center jewels. Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature. Dust ring. Depressed center sunk-second dial. Plates damaskeened.

**No. 335, Htg., Lever Set,** / **No. 336, O. F., Pendant Set,** } **Nickel** — **17 Jewels**

Pendant Winding. Seventeen jewels (settings). Ruby and sapphire balance and center jewels. Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with Micrometric regulator. Dust ring. Depressed center sunk-second dial. Plates damaskeened.

**No. 316, Htg., Lever Set,** / **No. 317, O. F., Pendant Set,** } **Nickel** — **15 Jewels**

Pendant Winding. Fifteen jewels (settings). Ruby balance jewels. Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with Micrometric regulator. Dust ring. Sunk-second dial. Plates damaskeened.

**No. 287, Htg., Lever Set,** / **No. 288, O. F., Pendant Set,** } **Nickel** — **7 Jewels**

Pendant Winding. Seven jewels (settings). Ruby balance jewels. Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with polished oval regulator. Dust ring. Sunk-second dial. Plates damaskeened.

## 16 Size, Three-quarter Plate Model

**LORD ELGIN, O. F., Nickel** — **23 Jewels**

Pendant Winding and Setting. Twenty-three ruby and sapphire jewels. Gold jewel settings. Bi-metallic balance running in jewels. *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Pallet arbor cone-pivoted and cap-jeweled. Escape pinion cone-pivoted and cap-jeweled. Compensating balance, pivots running on diamonds. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Plates beautifully damaskeened and finely finished.

**LORD ELGIN, Htg.** / **LORD ELGIN, O. F.** — **Nickel** — **21 Jewels**

Pendant Winding and Setting. Twenty-one ruby and sapphire jewels. Gold jewel settings. Bi-metallic balance running in jewels. *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Pallet arbor cone-pivoted and cap-jeweled. Escape pinion cone-pivoted and cap-jeweled. Compensating balance, pivots running on diamonds. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Plates beautifully damaskeened and finely finished.

*Elgin watches are profitable stock because they are always in demand and can be turned frequently. Profits lie in rapid turnover*

**VERITAS, O. F. Nickel** — 23 Jewels

Lever Setting for Railroad Service. Pendant Winding. Twenty-three ruby and sapphire jewels. Gold jewel settings. Barrel arbor pivots running in jewels. *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Fallet arbor cone-pivoted and cap-jeweled. Compensating balance. Breguet hair-spring with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates beautifully damaskeened and finely finished.

**VERITAS, O. F., Nickel** — 21 Jewels

Lever Setting for Railroad Service. Pendant Winding. Twenty-one ruby and sapphire jewels. Gold jewel settings. *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Pallet arbor cone-pivoted and cap-jeweled. Escape pinion cone-pivoted and cap-jeweled. Compensating balance. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates beautifully damaskeened and finely finished.

**B. W. RAYMOND, O. F., Nickel** — 21 Jewels

Lever Setting, for Railroad Service. Pendant Winding. Twenty-one ruby and sapphire jewels. Gold jewel settings. *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Pallet arbor cone-pivoted and cap-jeweled. Escape pinion cone-pivoted and cap-jeweled. Compensating balance. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates beautifully damaskeened and finely finished.

**FATHER TIME, Hdg., / FATHER TIME O. F.** — Nickel — 21 Jewels

Lever Setting, for Railroad Service. Pendant Winding. Twenty-one ruby and sapphire jewels. Gold jewel settings. *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Pallet arbor cone-pivoted and cap-jeweled. Escape pinion cone-pivoted and cap-jeweled. Compensating balance. Breguet hair-spring with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates beautifully damaskeened and finely finished.

**B. W. RAYMOND, Hdg., / B. W. RAYMOND, O. F.** — Nickel — 19 Jewels

Lever Setting, for Railroad Service. Pendant Winding. Nineteen ruby and sapphire jewels. Gold jewel settings. Barrel arbor pivots running in jewels. *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Compensating balance, Breguet hair-spring with Micrometric regulator. Adjusted to temperature, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates beautifully damaskeened and finely finished.

**B. W. RAYMOND, O. F., Nickel** — 17 Jewels

Lever Setting, for Railroad Service. Pendant Winding. Seventeen ruby and sapphire jewels. Gold jewel settings. *Double-roller escapement.* Steel escape wheel. Exposed sapphire pallet stones. Compensating balance, Breguet hair-spring with Micrometric regulator. Adjusted to temperature, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates beautifully damaskeened and finely finished.

**G. M. WHEELER, Hdg. / G. M. WHEELER O. F.** — Nickel — 17 Jewels

Pendant Winding and Setting. Seventeen jewels (settings). Ruby and sapphire balance and center jewels. Exposed pallet stones. *Double-roller escapement.* Cut expansion balance. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature. Exposed winding wheels. Patent recoiling click and self-locking setting device. Double-sunk glass enamel dial. Engraving inlaid with gold. Plates damaskeened.

**No. 381, Hdg. / No. 382, O. F.** — Nickel — 17 Jewels

Pendant Winding and Setting. Seventeen jewels (settings). Ruby and sapphire balance and center jewels. Adjusted to temperature. Exposed pallet stones. *Double-roller escapement.* Cut expansion balance. Breguet hair-spring, with Micrometric regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Depressed center sunk-second dial. Dust ring. Damaskeened plates.

**No. 385, Hdg. / No. 387, O. F.** — Nickel — 17 Jewels

Pendant Winding and Setting. Seventeen jewels (settings). Ruby and sapphire balance and center jewels. Exposed pallet stones. *Double-roller escapement.* Cut expansion balance. Breguet hair-spring with Micrometric regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Depressed center sunk-second dial. Dust ring. Damaskeened plates.

**No. 384, Hdg. / No. 383, O. F.** — Nickel — 15 Jewels

Pendant Winding and Setting. Fifteen jewels (settings). Ruby balance jewels. Exposed pallet stones. *Double-roller escapement.* Cut expansion balance. Breguet hair-spring, with Micrometric regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Sunk-second dial. Plates damaskeened.

**No. 290, Hdg. / No. 291, O. F.** — Nickel — 7 Jewels

Pendant Winding and Setting. Seven jewels (settings). Ruby balance jewels. Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with polished regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Sunk-second dial. Plates damaskeened.

## Lord Elgin Series

Cased at factory and sold complete

**O. F. Nickel** — 17 Jewels, Adjusted

Pendant Winding and Setting. Seventeen jewels (settings). Ruby and sapphire balance and center jewels. Exposed pallet stones. *Double-roller escapement.* Compensating balance. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature. Exposed winding wheels. Patent recoiling click and self-locking setting device. Sunk-second dial. Plates damaskeened.

**O. F., Nickel** — 17 Jewels

Pendant Winding and Setting. Seventeen jewels (settings). Ruby and sapphire balance and center jewels. Exposed pallet stones. *Double-roller escapement.* Cut expansion balance. Breguet hair-spring, with Micrometric regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Sunk-second dial. Plates damaskeened.

**O. F., Nickel** — 15 Jewels

Pendant Winding and Setting. Fifteen jewels (settings). Ruby balance jewels. Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with Micrometric regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Sunk-second dial. Plates damaskeened.

## 12 Size, Three-quarter Plate Model

**LORD ELGIN Hdg. / LORD ELGIN O. F.** — Nickel — 23 Jewels

Pendant Winding and Setting. Twenty-three sapphire and ruby jewels. Gold jewel settings. Barrel arbor pivots running in jewels. *Double-roller escapement.* Steel escape wheel. Exposed ruby pallet stones. Pallet arbor cone-pivoted and cap-jeweled. Escape pinion cone-pivoted and cap-jeweled. Compensating balance. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Sunk-second dial. Engraving inlaid with gold. Plates beautifully damaskeened and finely finished.

**B. W. RAYMOND, Hdg. / B. W. RAYMOND O. F.** — Nickel — 19 Jewels

Pendant Winding and Setting. Nineteen ruby and sapphire jewels. Gold jewel settings. Barrel arbor pivots running in jewels. *Double-roller escapement.* Steel escape wheel. Exposed ruby pallet stones. Pallet arbor cone-pivoted and cap-jeweled. Escape pinion cone-pivoted and cap-jeweled. Compensating balance. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, five positions. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Sunk-second glass enamel dial. Dust ring. Plates beautifully damaskeened and finely finished. Gold jewel settings. Engraving inlaid with gold.

**G. M. WHEELER, Hdg. / G. M. WHEELER O. F.** — Nickel — 17 Jewels

Pendant Winding and Setting. Seventeen jewels (settings). Ruby and sapphire balance and center jewels. Exposed pallet stones. *Double-roller*

*There is extra value in a good stock of Elgin watches. They are a good criterion by which to have the public judge one's store*

escapement. Compensating balance. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature, isochronism, three positions. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Sunk-second glass enamel dial. Plates damaskeened. Engraving inlaid with gold.

**No. 383, Htg., } Nickel — 17 Jewels**
**No. 384, O. F., }**

Pendant Winding and Setting. Seventeen jewels (settings). Ruby and sapphire balance and center jewels. Adjusted to temperature. Exposed pallet stones. Double-roller escapement. Compensating balance. Breguet hair-spring, with Micrometric regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Sunk-second dial. Dust ring. Damaskeened plates.

**No. 341, Htg., } Nickel — 17 Jewels**
**No. 345 O. F., }**

Pendant Winding and Setting. Seventeen jewels (settings). Ruby and sapphire balance and center jewels. Double-roller escapement. Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with Micrometric regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Sunk-second dial. Plates damaskeened.

**No. 314, Htg., } Nickel — 15 Jewels**
**No. 315, O. F., }**

Pendant Winding and Setting. Fifteen jewels (settings). Ruby balance jewels. Exposed pallet stones. Cut expansion balance. Double-roller escapement. Breguet hair-spring, with Micrometric regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Sunk-second dial. Plates damaskeened.

**No. 301, Htg., } Nickel — 7 Jewels**
**No. 303, O. F., }**

Pendant Winding and Setting. Seven jewels (settings). Ruby balance jewels. Exposed pallet stones. *Double-roller escapement.* Cut expansion balance. Breguet hair-spring, with polished regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Sunk-second dial. Plates damaskeened.

## 6 Size. Three-quarter Plate Model

**No. 295, Htg., Nickel — 15 Jewels**

Pendant Winding and Setting. Fifteen jewels (settings). Ruby balance jewels. Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with polished regulator. Sunk-second dial. Plates damaskeened.

**No. 280, Htg., Nickel — 7 Jewels**

Pendant Winding and Setting. Seven jewels (settings). Ruby balance jewels. Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with polished regulator. Sunk-second dial. Plates damaskeened.

## 0 Size. Three-quarter Plate Model

**No. 201, Htg., } Nickel — 19 Jewels**
**No. 205, O. F., }**

Pendant Winding and Setting. Nineteen ruby and sapphire jewels. Gold jewel settings. Barrel arbor mounted in jewels. Steel escape wheel.

### Complete Watches

The open face 18 size Veritas Model grades are furnished to the trade as complete watches when so desired. Cased at the factory and timed in the cases. The cases are open face, screw back and bezel model. The thinnest 18 size watches made.

*Double-roller escapement.* Exposed pallet stones. Compensating balance. Breguet hair-spring. Mainspring of improved quality. Safety barrel, with spring box rigidly mounted on bridge. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Sunk-second glass enamel dial. Plates damaskeened and finely finished.

**No. 265, Htg., } Nickel — 17 Jewels**
**No. 261, O. F., }**

Pendant Winding and Setting. Seventeen jewels (settings). Ruby and sapphire balance and center jewels. *Double-roller escapement.* Exposed pallet stones. Compensating balance. Breguet hair-spring, with Micrometric regulator. Adjusted to temperature. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Sunk-second glass enamel dial. Plates damaskeened. Engraving inlaid with gold.

**No. 351, Htg., } Nickel — 15 Jewels**
**No. 355, O. F., }**

Pendant Winding and Setting. Fifteen jewels (settings). Ruby balance jewels. *Double-roller escapement.* Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with Micrometric regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Sunk-second dial. Plates damaskeened.

**No. 330, Htg., } Nickel — 7 Jewels**
**No. 331, O. F., }**

Pendant Winding and Setting. Seven jewels (settings). Ruby balance jewels. *Double-roller escapement.* Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with polished regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Dust ring. Sunk-second dial. Plates damaskeened.

## 3-0 Size. Three-quarter Plate Model

**LADY RAYMOND, Htg., Nickel — 15 Jewels**

Pendant Winding and Setting. Fifteen jewels (settings). Ruby balance jewels. Double-roller escapement. Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with polished regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Sunk-second glass enamel dial. Damaskeened plates. Hunting with seconds, Open-face without seconds.

## 10-0 Size. Three-quarter Plate Model

**LADY ELGIN, O. F., Nickel — 17 Jewels**

Pendant Winding and Setting. Seventeen ruby and sapphire jewels. Gold jewel settings. Exposed pallet stones. Steel escape wheel. *Double-roller escapement.* Cut expansion balance. Breguet hair-spring, with polished regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Sunk-second glass enamel dial. Plates damaskeened and finely finished. Open-face with seconds. Hunting without seconds.

**LADY ELGIN, O. F., Nickel — 15 Jewels**

Pendant Winding and Setting. Fifteen jewels (settings). Ruby balance jewels. *Double-roller escapement.* Exposed pallet stones. Cut expansion balance. Breguet hair-spring, with polished regulator. Exposed winding wheels. Patent recoiling click and self-locking setting device. Sunk-second glass enamel dial. Plates damaskeened. Open-face with seconds; Hunting without seconds.

### Complete Veritas Model Open Face Watches

**Cased at the factory and timed in the cases**

| | 25 Year | 20 Year | Nickel |
|---|---|---|---|
| Veritas 23 Jewels | $81 20 | $67 50 | $57 60 |
| Veritas 21 Jewels | 67 10 | 61 10 | 51 50 |
| B. W. Raymond 21 Jewels | 61 20 | 58 50 | 48 00 |
| Lady Elgin, 21 Jewels | 58 10 | 55 10 | 45 50 |
| B. W. Raymond 19 Jewels | 51 00 | 51 10 | 41 10 |
| B. W. Raymond 17 Jewels | 50 10 | 47 50 | 37 80 |
| G. M. Wheeler, 17 Jewels | 40 50 | 37 80 | 27 90 |

## Special Features

Decorated dials and Louis XV hands on all grades and sizes, $1.00 extra. Metal dials, $1 50 extra.

Orders will be accepted for special named Elgin movements in all grades. A charge of 80 cents each list will be made for naming all 7-jeweled movements on plates, and orders for less than five, either Hunting or Open Face, of these will not be accepted. Other grades of movements named free of charge. No extra charge for naming dials.

*Simplicity of model, perfection of interchangeability and finished workmanship — always have been marked Elgin characteristics*

# ILLINOIS WATCH MOVEMENTS

## HUNTING AND OPEN FACE

### PRICES EACH

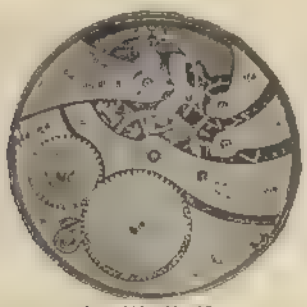
**No 305 17 Jewels $20 00**
16 Size

Nickel, 17 jewels; adjusted to temperature; compensating balance with timing screws, steel escape wheel, rounded arm train wheels, gold center wheel; safety screw center pinion, Breguet hairspring, patent micrometric screw regulator; safety recoil click, perfect self-locking setting device; double sunk dial

WE ESPECIALLY RECOMMEND
THE ILLINOIS WATCH MOVEMENTS
TO THE RETAIL JEWELER

**No. 304 $17 00**
16 Si

Nickel; 17 jewels; compensating balance with timing screws, rounded arm train [illegible] Breguet hairspring, patent micrometric screw regulator; safety recoil click; perfect self-locking setting device double sunk dial.



**No 303 $13 00**
16 S[illegible]

No. [illegible] jewels [illegible] timing screws [illegible] Breguet hairspring [illegible] patent micrometric screw regulator; safety recoil click; perfect self-locking setting device [illegible] double sunk dial.

**No. 299 21 Jewels $43 00**

Twenty-one extra quality ruby and sapphire jewels, gold settings; accurately adjusted to temperature, five positions and isochronism, very carefully timed, compensation hard balance with gold screws including timing screws, entire escapement exposed, cap jewelled and hand finished conical pivots; hardened polished steel escape wheel; highly polished gold [illegible] Swiss model lever spring [illegible] safety [illegible] patent micrometric screw regulator, all steel parts [illegible] polished, [illegible] gold [illegible] enameled [illegible] finish, [illegible] finely damaskeened, black enamel lettering. [illegible] Hunting and Open Face, Pendant setting

**No. 506 The Springfield Watch $45 00**
Bridge Model Open Face Only

Seventeen ruby and sapphire jewels [illegible] orexite settings; adjusted to temperature, isochronism and three positions, spring tempered compensating balance with timing screws [illegible] finding mean time screws, double roller escapement; hardened and polished [illegible] gold center wheel [illegible] Breguet [illegible] micrometric screw regulator [illegible] recoiling click [illegible] The movement is cased at the factory and sold complete in [illegible] Springfield [illegible] is the most attractive thin model watch on the market. 12-size, pendant setting.

**No. 405 $21 00**
12 Size 4 Bridge Model Pendant Setting
Open Face and Hunting

Seventeen [illegible] jewels [illegible] adjusted [illegible] temperature, isochronism, three positions, spring tempered compensating balance with timing screws [illegible] gold center wheel [illegible] polished steel escape wheel [illegible] Breguet hairspring [illegible] micrometric screw regulator, safety screw center pinion; concaved and polished winding wheels, safety recoil [illegible] [illegible] pattern. A very attractive, well finished and thoroughly dependable movement.

# ILLINOIS WATCH MOVEMENTS

## 18-SIZE HUNTING AND OPEN FACE—LEVER SETTING

PRICES EACH

**Bunn Special, Nickel $48 00**
18 Size Full Plate Hunting and Open Face Lever Set

Nickel; 23 extra quality [illegible] jewels solid g[illegible] accurately adjusted to temperature [illegible] double roller escapement [illegible] all steel parts highly polished; double sunk glass [illegible] bright spotted pattern, gold inlaid lettering.

The highest grade 23 jewel 18-size watch made and guaranteed to give satisfaction under the most trying conditions of railway service.

**Bunn Special, Nickel $38 00**
18 Size Full Plate Hunting and Open Face Lever Set

N[illegible]. Jewels [illegible] accurately adjusted to temperature [illegible] all steel parts highly polished; double sunk glass [illegible] bright spotted pattern, black enamel lettering.

The highest grade 21 jewel, 18 size watch made and guaranteed to give satisfaction under the most trying conditions of railway service.

**A. Lincoln, Nickel $33 50**
18 Size Full Plate Hunting and Open Face Lever Set

Nickel; 21 ruby and sapphire jewels, gold settings; adjusted to temperature, five positions and isochronism; compensating hard balance having gold screws, including timing screws; double roller escapement; sapphire roller and pallet jewels; entire escapement cap jeweled and conical pivots, beveled, polished, steel escape wheel, best quality Breguet hairspring; first quality mainspring; patent safety center pinions; patent micrometric screw regulator, friction fitted dust band, double sunk dial; heavy Arabic figures, damaskeened in attractive bright striped pattern black enamel lettering

**Bunn, Nickel $38 00**
18 Size Full Plate Hunting and Open Face Lever Set

Nickel; 19 fine ruby and sapphire jewels solid gold settings accurately adjusted to temperature, five positions and isochronism; careful[illegible] pallet jewels; [illegible] pattern, black enamel lettering.

The highest quality 19 jewel 18 size railroad watch made. Guaranteed to give entire satisfaction in any service.

**Bunn, Nickel $39 00**
18 Size Full Plate Hunting and Open Face Lever Set

Nickel, 17 fine ruby and sapphire jewels, solid gold settings; accurately adjusted to temperature, five positions and isochronism; carefully rated and timed, double roller escapement, sapphire roller and pallet jewels; hardened; polished and beveled steel escape wheel; poised fork and pallet; compensating hard balance with solid gold screws, including timing screws; best quality Swiss Breguet hairspring Phillips coil, first quality mainspring; all steel parts highly polished; double sunk glass enamel dial; handsomely damaskeened in bright sunburst pattern, black enamel lettering

The highest quality 17 jewel 18 size railroad watch made. Guaranteed to give entire satisfaction in any service.

**No. 89 Nickel $15 50**
18 Size Full Plate Hunting and Open Face Lever Set

Seventeen jewels, composition settings, adjusted to temperature; compensating hard balance with timing screws; best quality Swiss Breguet hairspring, patent safety center pinion; patent micrometric screw regulator, Swiss mainspring, double sunk dial; friction fitted dust-band; handsomely damaskeened in two colors, gilt and nickel, gilt screws and regulator

# ILLINOIS WATCH MOVEMENTS

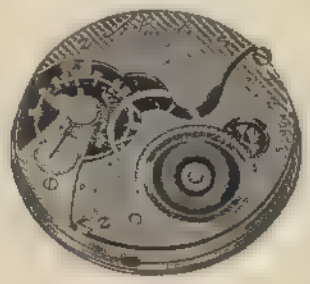
## 16 SIZE RAILROAD GRADES HUNTING AND OPEN FACE LEVER SETTING; OTHERS PENDANT SETTING

PRICES EACH

MONTGOMERY DIALS CAN BE FITTED ON ALL RAILROAD GRADES WITHOUT EXTRA CHARGE
25 CENTS EACH EXTRA WHEN FITTED TO OTHER GRADES

**Sangamo Special $60 00**
16 Size Bridge Model Lever Setting Hunting and Open Face

Twenty-three extra quality diamond, ruby and sapphire jewels, raised gold set[tings]; adjusted to temperature six positions and isochronism; very care[fully] [adjusted] to [temperature], [six positions] and [isochronism]; [very carefully rated] [timed], [special quality] hardened and tempered compensating balance, with gold [screws] [including] mean time screws, [rounded] arm [polished] gold train wheels, double [roller escapement] beveled and polished steel escape wheel, [entire escapement] [capped] [jeweled] conical pivots; best quality Breguet hairspring, safety screw center pinion, Illinois superior mainspring, patent micrometric screw regulator, recoiling [click], [patent] [micrometric] [screw] [regulator], [recoiling] [click] concaved, polished and [grooved] winding wheels, screws are chamfered and [plates] [cornered], double sunk [white] enamel dial, plates and bridges have chamfered edges [and] are nicely finished and artistically damaskeened; engraving inlaid with gold. An exceptionally high grade 16 size watch made



**A. Lincoln $39 00**
16 Size ⅛ Plate Lever Setting Hunting and Open Face

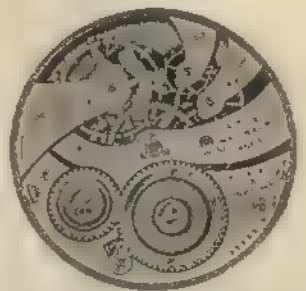
Nickel; 21 ruby and sapphire jewels, gold settings; adjusted to temperature, five positions and isochronism; compensating hard balance, having gold screws, including timing screws, exposed double roller escapement; sapphire roller and pallet jewels, beveled steel escape wheel, [screw] [regulator], welded, conical pivots; beveled and polished gold center wheel, patent micrometric screw regulator; best quality, Breguet hairspring, first quality Illinois mainspring, patent safety screw center pinion, concaved polished, visible winding wheels, friction fitted dust band, double [white] dial; damaskeened in bright striped pattern, black enamel lettering

**Bunn Special $50 00**
16 Size ⅛ Plate Lever Setting Hunting and Open Face

Twenty-three extra quality, ruby and sapphire jewels, raised gold settings; [ad]justed to temperature, six positions and isochronism; very carefully rated [and] timed, special quality hardened and tempered compensating balance, with gold [screws] including mean time screws, rounded arm polished gold train wheels, double [roller escapement], beveled and polished steel escape wheel, entire escapement capped [and] jeweled conical pivots, beveled and polished winding wheels, screws are chamfered and plates [cornered], double sunk white enamel dial; plates and bridges have chamfered edges, are nicely finished and artistically damaskeened; engraving inlaid with gold. An exceptionally high grade 16 size watch made

**Bunn Special $43 00**
16 Size ⅛ Plate Lever Setting Hunting and Open Face

Twenty-one extra quality, ruby and sapphire jewels, raised gold settings, accurately adjusted to temperature, six positions and isochronism very carefully rated and timed, special quality hardened and tempered compensating balance with gold screws including mean time screws, rounded arm polished gold train wheels, double roller escapement beveled and polished steel escape wheel entire escapement capped jeweled conical pivots best quality Breguet hairspring, safety screw center pinion, Illinois superior mainspring, patent micrometric screw regulator, recoiling click, concaved, polished and grooved winding wheels, screws are chamfered and plates cornered, double sunk white enamel dial, plates and bridges have chamfered edges and are nicely finished and artistically damaskeened; engraving inlaid with gold. An exceptionally high grade 16 size watch



**No. 306 17 Jewels $22 00**
Hunting and Open Face Pendant Setting

Nickel; 17 jewels, adjusted to temperature and three positions, compensating balance, [with] timing screws, steel escape wheel, rounded arm train wheels, gold center wheel, safety screw center pinion, Breguet hairspring; patent micrometric screw regulator, safety recoil click, perfect self locking setting device; double sunk dial.

# ILLINOIS WATCH MOVEMENTS

## HUNTING AND OPEN FACE

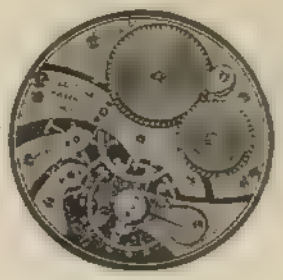
PRICES EACH

**No. 404 $17 00**

12 Size 4 Bridge Model Pendant Setting Open Face and Hunting

Seventeen jewels, polished oreide settings; spring tempered compensating balance with timing screws; hardened and polished steel escape wheel, gold, beveled and polished center wheel, Breguet hairspring, patent micrometric screw regulator, safety screw center pinion, concaved and polished winding wheels; safety recoil click. Damaskeened in attractive bright striped pattern

A well constructed movement, exceptionally attractive and an accurate time keeper.



**No. 403 $13 50**

12 Size 4 Bridge Model Pendant Setting Open Face and Hunting

Fifteen jewels, polished settings; spring tempered compensating balance with timing screws; rounded arm center wheel, Breguet hairspring; patent micrometric screw regulator; safety screw center pinion, recoil safety click. Damaskeened in bright broad striped pattern.

An unusually well designed and constructed watch

**No. 37 $19 00**

Seventeen jewels; composition settings; compensating balance with timing screws, exposed escapement, hardened, polished steel escape wheel, patent micrometric screw regulator, best quality Swiss [illegible] patent safety center pinion [illegible] polished concaved [illegible] set [illegible]

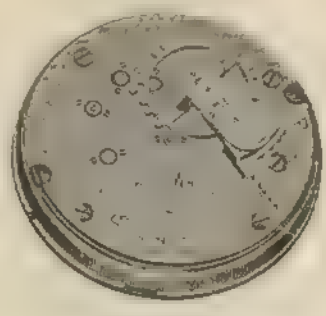
O Size

**No. 35 $15 40**

Fifteen jewels; composition settings; compensating balance with timing screws; exposed escapement; patent regulator; best quality Swiss Breguet hairspring; patent safety center pinion; Swiss mainspring, exposed winding wheels; sunk second dial set in recess of plate, friction fitted dust band, handsomely damaskeened.

**No. 33 $12 00**

Eleven jewels, composition settings; compensating bal[illegible] exposed escapement, best quality Swiss Breguet hairspring; patent safety center pinion; Swiss mainspring, exposed winding wheels sunk second dial set in recess of plate, friction fitted dust band; handsomely damaskeened.



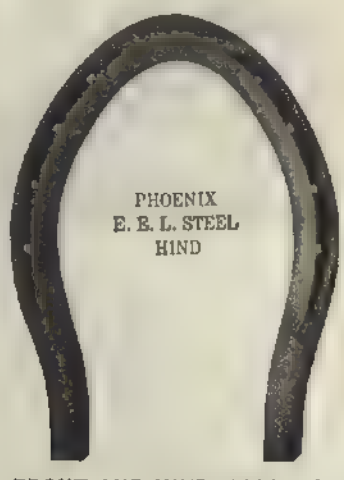
**No. 69 17 Jewels $16 70**

18 Size Lever Setting

Nickel; 17 jewels; composition settings; compensating balance with timing screws; best quality Swiss Breguet hairspring, patent safety center pinion; Swiss mainspring, patent micrometric screw regulator, single sunk dial, friction fitted dust band, handsomely damaskeened

# HORSE SHOES

## EXTRA EXTRA LIGHT STEEL




### FRONT

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Weight of each shoe, oz. | 13 | 14 | 17 |
| Average number in keg | 133 | 114 | 94 |
| Keg | $10 50 | 10 00 | 10 00 |

### HIND

| Nos. | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Weight of each shoe, oz. | 8 | 9 | 10 | 12 | 15 |
| Average number in keg | 200 | 177 | 160 | 133 | 106 |
| Keg | $10 50 | 10 50 | 10 00 | 10 00 | 10.00 |

### FRONT AND HIND, ASSORTED

Two Sizes in Keg

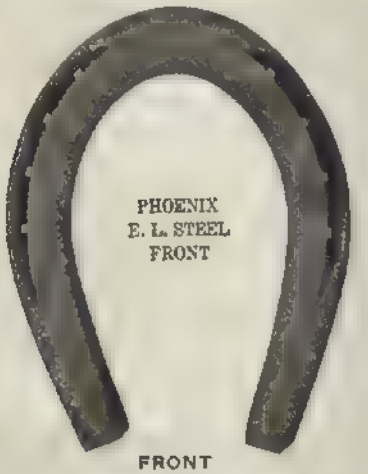
| Nos. | 1 and 2 | 2 and 3 | 3 and 4 | 4 and 5 |
|---|---|---|---|---|
| Average number in keg | 117 | 92 | 77 | 64 |
| Keg | $10 50 | 10 30 | 10 30 | 10 30 |

Three Sizes in Keg

| Nos. | 0, 1 and 2 | 1, 2 and 3 | 2, 3 and 4 |
|---|---|---|---|
| Average number in keg | 125 | 101 | 80 |
| Keg | $10.60 | 10 50 | 10.30 |

Packed, one hundred pounds in keg.

## EXTRA LIGHT STEEL



### FRONT

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Weight of each shoe, oz. | 13 | 15½ | 18½ | 22 | 25½ | 30 |
| Average number in keg | 123 | 103 | 88 | 72 | 64 | 53 |
| Keg | $9 00 | 8 50 | 8 50 | 8.50 | 8.50 | 8 50 |

### FRONT, ASSORTED

Three Sizes in Keg

| Nos. | 1, 2 and 3 | 2, 3 and 4 |
|---|---|---|
| Average number in keg | 102 | 84 |
| Keg | $9 00 | 8 80 |

### HIND

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Weight of each shoe, oz. | 10½ | 13 | 16 | 19½ | 23 | 27 |
| Average number in keg | 152 | 123 | 100 | 82 | 70 | 59 |
| Keg | $9 00 | 8.50 | 8 50 | 8 50 | 8 50 | 8.50 |

### HIND, ASSORTED

| Nos. | 1 and 2 | 2 and 3 | 1, 2 and 3 |
|---|---|---|---|
| Average number in keg | 136 | 110 | 120 |
| Keg | $9 00 | 8 80 | 9 00 |

### FRONT AND HIND

Equal Numbers of Each in Keg

| Nos. | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Average number in keg | 160 | 136 | 112 | 94 | 76 |
| Keg | $9 00 | 9 00 | 8 50 | 8 50 | 8.50 |

### FRONT AND HIND, ASSORTED

Two Sizes in Keg

| Nos. | 2 and 3 | 3 and 4 |
|---|---|---|
| Average number in keg | 100 | 84 |
| Keg | $8 80 | 8 80 |

Three Sizes in Keg

| Nos. | 1, 2 and 3 | 2, 3 and 4 | 3, 4 and 5 |
|---|---|---|---|
| Average number in keg | 108 | 90 | 78 |
| Keg | $9.00 | 8.80 | 8.80 |

Four Sizes in Keg

| Nos. | 1, 2, 3 and 4 |
|---|---|
| Average number in keg | 96 |
| Keg | $8.90 |

Packed, one hundred pounds in keg

# HORSE SHOES

## LIGHT IRON

### FRONT

| Nos. | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| Weight of each shoe, oz. | 17 | 21 | 25 | 30 | 36 |
| Number of shoes in keg | 94 | 76 | 64 | 52 | 44 |
| Keg | $8 50 | 8 50 | 8 50 | 8 50 | 8.50 |

### HIND

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Weight of each shoe, oz. | 12 | 14 | 18 | 22 | 27 | 31 | 34 |
| Number of shoes in keg | 133 | 114 | 88 | 73 | 59 | 51 | 47 |
| Keg | $9 00 | 8.50 | 8 50 | 8.50 | 8 50 | 8 50 | 8 50 |

### FRONT AND HIND

Equal Numbers of Each in Keg

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Number of shoes in keg | 122 | 94 | 80 | 76 | 66 | 56 |
| Keg | $9 00 | 8 50 | 8 50 | 8.50 | 8 50 | 8 50 |

### FRONT AND HIND, ASSORTED

Two Sizes in Keg

| Nos. | 1 and 2 | 2 and 3 | 3 and 4 | 4 and 5 | 5 and 6 |
|---|---|---|---|---|---|
| Number of shoes in keg | 112 | 88 | 72 | 60 | 52 |
| Keg | $9 00 | 8 80 | 8 80 | 8 80 | 8 80 |

Three Sizes in Keg

| Nos. | 1, 2 and 3 | 2, 3 and 4 | 4, 5 and 6 |
|---|---|---|---|
| Number of shoes in keg | 96 | 78 | 54 |
| Keg | $9 00 | 8 80 | 8.80 |

Four Sizes in Keg

| Nos. | 1, 2, 3 and 4 |
|---|---|
| Number of shoes in keg | [illegible] |
| Keg | $8 90 |

Packed, one hundred pounds in keg.

## LONG HEEL, LIGHT IRON

### FRONT

| Nos. | 3 | 4 | 5 | 6 |
|---|---|---|---|---|
| Weight of each shoe, oz. | 22½ | 26½ | 31½ | 38 |
| Number of shoes in keg | 71 | 60 | 50 | 42 |
| Keg | $8 50 | 8.50 | 8.50 | 8.50 |

### HIND

| Nos. | 3 | 4 | 5 | 6 |
|---|---|---|---|---|
| Weight of each shoe, oz. | 19½ | 23½ | 28½ | 33 |
| Number of shoes in keg | 82 | 68 | 56 | 48 |
| Keg | $8 50 | 8 50 | 8 50 | 8 50 |

Packed, one hundred pounds in keg.

## HORSE SHOES

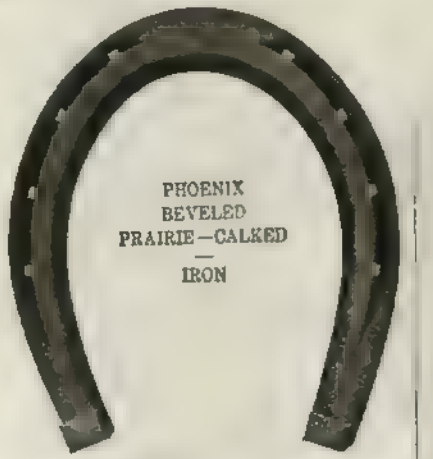
### IRON, PRAIRIE

#### PLAIN

Ready for nailing on; nail holes are pritcheled, but heels are left plain and not turned up; the bevel on the inside prevents the shoe pulling off in the mud, and also prevents slipping.

| Nos. | 00 | 0 | 1 | 2 |
|---|---|---|---|---|
| Weight of each shoe, oz. | 8 | 9 | 11 | 13 |
| No. of shoes in keg | 200 | 177 | 145 | 123 |
| Keg | $10.50 | 10 50 | 10 50 | 10 00 |

Packed, one hundred pounds in keg.




#### CALKED

| Nos. | 00 | 0 | 1 | 2 | 3 |
|---|---|---|---|---|---|
| Weight of each shoe, oz. | 8 | 9 | 11 | 13 | 15 |
| No of shoes in keg | 200 | 177 | 145 | 123 | 106 |
| Keg | $11 50 | 11.50 | 11 50 | 11.00 | 11.00 |

#### CALKED, ASSORTED

| Nos. | 0 and 1 | 1 and 2 |
|---|---|---|
| No. of shoes in keg | 160 | 132 |
| Keg | $12 00 | 11 70 |

Packed, one hundred pounds in keg.

## MULE SHOES

### IRON

| Nos. | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Weight of each shoe, oz. | 12 | 14 | 16 | 22 | 27 |
| No. of shoes in keg | 133 | 114 | 100 | 70 | 59 |
| Keg | $9.00 | 8 50 | 8 50 | 8.50 | 8 50 |

#### ASSORTED

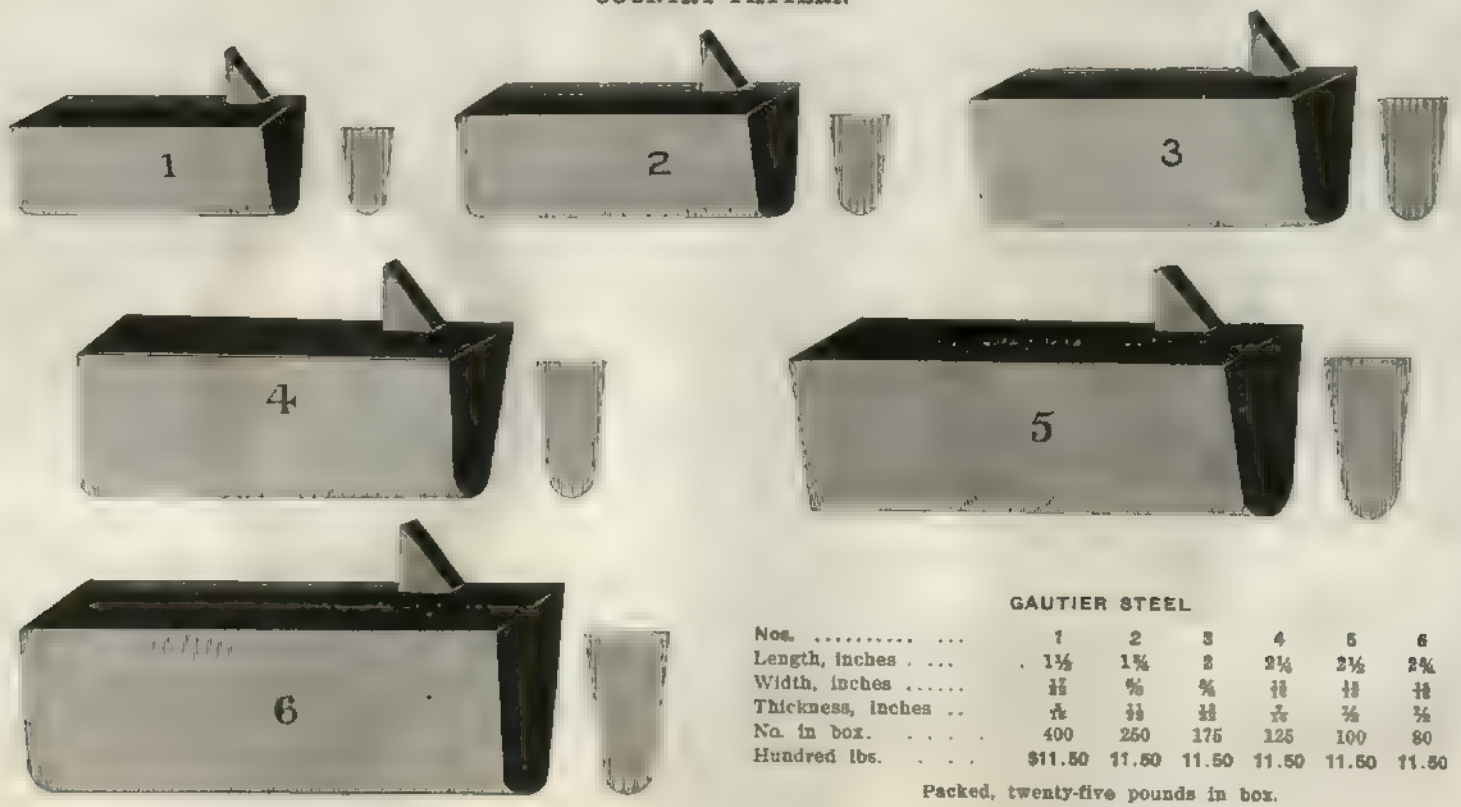
| Nos. | 2, 3 and 4 | 5 and 6 |
|---|---|---|
| No. of shoes in keg | 87 | 54 |
| Keg | $8 80 | 8 80 |

Packed, one hundred pounds in keg.

## TOE CALKS

ILLUSTRATIONS FULL SIZE

### COUNTRY PATTERN

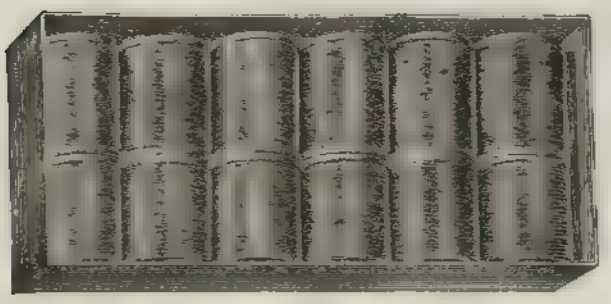



#### GAUTIER STEEL

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Length, inches | 1⅛ | 1¼ | 2 | 2⅛ | 2½ | 2¾ |
| Width, inches | ⅜ | ⅜ | ⅜ | ⅜ | ⅜ | ⅜ |
| Thickness, inches | 7/32 | 9/32 | 9/32 | 7/32 | 7/32 | 7/32 |
| No. in box | 400 | 250 | 175 | 125 | 100 | 80 |
| Hundred lbs. | $11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 |

Packed, twenty-five pounds in box.

## WIRE ON SPOOLS



### HAIR

**Annealed**

| Nos. | 32A | 34A | 36A |
|---|---|---|---|
| Weight per dozen, ounces | 10 | 10 | 10 |
| Dozen | $0 24 | .26 | .30 |

Packed, one dozen spools in box.

**Tinned**

| Nos. | 32T | 34T | 36T |
|---|---|---|---|
| Weight per dozen, ounces | 10 | 10 | 10 |
| Dozen | $0.26 | .28 | .34 |

Packed, one dozen spools in box.

### SOFT COPPER

**On One-ounce Spools**

| | Doz. |
|---|---|
| No. A—Assorted, three spools each of Nos. 18, 20, 22 and 24; weight per dozen 1 lb. | $ 0.90 |

Packed, one dozen spools in box

| Nos. | 18 | 20 | 22 | 24 |
|---|---|---|---|---|
| Weight per dozen, lbs | 1 | 1 | 1 | 1 |
| Dozen | $0 90 | 90 | .90 | .90 |

Packed, one dozen spools in box.

### SOFT BRASS

**On 1-Ounce Spools**

| | Doz. |
|---|---|
| No. B—Assorted, three spools each of Nos. 18, 20, 22 and 24; weight per dozen 1 lb. | $ 0.90 |

Packed, one dozen spools in box.

### FAVORITE ASSORTMENT

| | Each |
|---|---|
| No. 2—4 dozen spools of assorted gauge wire; one dozen black annealed, two dozen tinned, one-half dozen brass, one-half dozen copper; weight 3½ lbs. | $ 1.90 |

Packed, one assortment in wood box.

**CONTENTS OF ASSORTMENT**

**Annealed, on No. 5 Spools**

| No. | 28 |
|---|---|
| Number of spools | 12 |

**Tinned, on No. 5 Spools**

| Nos. | 30 | 32 |
|---|---|---|
| Number of spools | 12 | 12 |

**Soft Brass, on No. 5 Spools**

| Nos. | 20 | 22 | 24 |
|---|---|---|---|
| Number of spools | 2 | 2 | 2 |

**Soft Copper, on No. 5 Spools**

| Nos. | 20 | 22 | 24 |
|---|---|---|---|
| Number of spools | 2 | 2 | 2 |

### RIVAL ASSORTMENT

| | Each |
|---|---|
| No. 1—Contains 147 spools of black and tinned, annealed steel, copper and brass wire; covers all saleable sizes without any dead stock; put up especially to meet the demands of the retail hardware trade; weight 14½ lbs. | $ 6.00 |

Packed, one assortment in wood box.

**CONTENTS OF ASSORTMENT**

**Annealed, on No. 5 Spools**

| Nos. | 28 | 30 | 32 | [illegible] |
|---|---|---|---|---|
| Number of spools | 12 | 12 | 12 | 12 |

**Annealed, on ¼-pound Spools**

| Nos. | 18 | 20 | 22 | 24 | 26 |
|---|---|---|---|---|---|
| Number of spools | 3 | 3 | 3 | 3 | 3 |

**Tinned, on No. 5 Spools**

| Nos. | 28 | 30 | 32 |
|---|---|---|---|
| Number of spools | 12 | 12 | 12 |

**Tinned, on ¼-pound Spools**

| Nos. | 18 | 20 | 22 | 24 |
|---|---|---|---|---|
| Number of spools | 3 | 3 | 3 | 3 |

**Soft Copper, on No. 4 Spools**

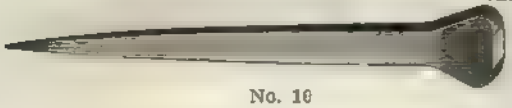
| Nos. | 20 | 22 | 24 |
|---|---|---|---|
| Number of spools | 6 | 6 | 6 |

**Soft Brass, on No. 4 Spools**

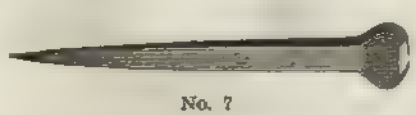
| Nos. | 20 | 22 | 24 |
|---|---|---|---|
| Number of spools | 6 | 6 | 6 |

## HORSE SHOE NAILS

ILLUSTRATIONS FULL SIZE



No. 10



No. 7

**WYETH**

Regular head, hot forged, hammer pointed and polished.

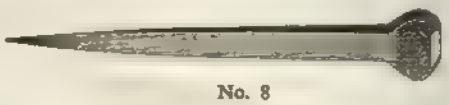
| Nos. | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|
| Length, inches | 2 | 2⅛ | 2¼ | 2⅛ | 2⅝ | 2¾ |
| Pound | $0.25 | .25 | .25 | .25 | .26 | .26 |

Packed, five pounds in paper box; twenty-five pounds in wood box.

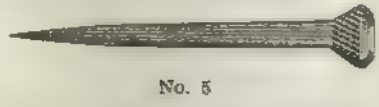
City head, hot forged, hammer pointed and polished.

| Nos. | 5 | 6 | 7 | 8 |
|---|---|---|---|---|
| Length, inches | 1⅞ | 2⅛ | 2¼ | 2⅜ |
| Pound | $0 25 | .25 | .25 | .25 |

Packed, five pounds in paper box; twenty-five pounds in wood box



No. 8



No. 5

### ELECTRIC CITY

Regular head, hot forged, pointed and polished.

| Nos. | 5 | 6 | 7 | 8 |
|---|---|---|---|---|
| Length, inches | 1⅞ | 2 | 2⅛ | 2⅛ |
| Pound | $0.19 | .19 | .19 | .19 |

Packed, five pounds in paper box; twenty-five pounds in wood box.

### CAPEWELL

Regular head, plain pattern, Swedish iron, polished.

| Nos. | 5 | 6 | 7 | 8 |
|---|---|---|---|---|
| Length, inches | 2 | 2⅛ | 2¼ | 2½ |
| Pound | $0.22 | .19 | .18 | .17 |
| | .40 | .35 | .33 | .31 |

Packed, five pounds in paper box; twenty-five pounds in wood box.

# Heavy Weight Souvenir Tea Spoons. Guaranteed 925/1000 Fine

PRICES EACH

**PEARS**
Massive weight
No 15185 Silver bowl ..... $5.20
No 15186 Gold bowl ..... 6.75

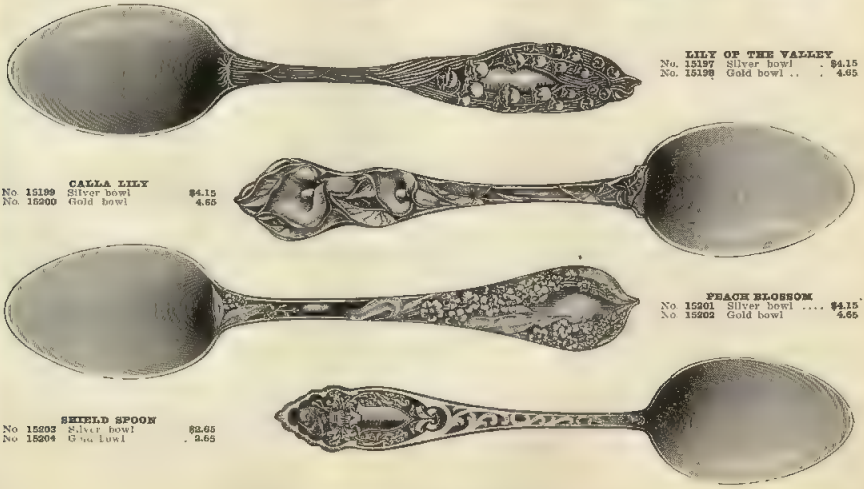
**APPLES**
Massive weight
No 15187 Silver bowl . $5.20
No 15188 Gold bowl . 6.75

**HOLLY**
No 15189 Silver bowl . $3.50
No 15190 Gold bowl . . . 4.00

**EASTER OR CHRISTMAS SPOON**
No 15191 Silver bowl . $4.85
No 15192 Gold bowl . . 5.80

**BIRTHMONTH SPOON**
Shows flower appropriate
for each month
No 15193 Silver bowl $3.75
No 15194 Gold bowl . . . 4.85

**BIRTHMONTH SPOON**
A different flower for every month
No 15195 Silver bowl . . $4.25
No 15196 Gold bowl . . . . 4.75



**LILY OF THE VALLEY**
No. 15197 Silver bowl . $4.15
No. 15198 Gold bowl .. . 4.65

**CALLA LILY**
No. 15199 Silver bowl $4.15
No. 15200 Gold bowl 4.65

**PEACH BLOSSOM**
No 15201 Silver bowl .... $4.15
No 15202 Gold bowl 4.65

**SHIELD SPOON**
No 15203 Silver bowl $3.65
No 15204 Gold bowl . 2.65

# Heavy Weight Souvenir Tea Spoons
## Guaranteed 925/1000 Fine

Illustrations are exact size. Prices Each.
French Gray Handles

**STATE SPOON**
No. W15805 Silver bowl $4.15
No. W15806 Gold bowl 4.60

**STATE SPOON**
No. 15207 Silver bowl $3.65
No. 15208 Gold bowl 4.15

**STATE SPOON**
No. 15209 Silver bowl $3.15
No. 15210 Gold bowl 3.65

**EMBLEM SPOON**
No. 15211 Gold bowl $3.15

**EMBLEM SPOON**
No. 15212 Gold bowl $3.15

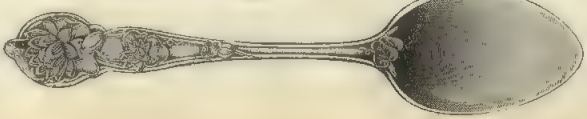
**CHICAGO SPOON**
Can furnish any public building in
No. 15213 With Building $3.15
No. 15214 Without Building 3.15

No. 15215 Silver bowl $3.65
No. 15216 Gold bowl 4.15

**APPLES**
No. 15217 Silver bowl $3.65
No. 15218 Gold bowl 4.15

**COEN**
No. 15219 Silver bowl $3.65
No. 15220 Gold bowl 4.15

**CALLA LILY**
No. 15221 Silver bowl $3.15
No. 15222 Gold bowl 3.65



**POND LILY**
No. 15223 Silver bowl $3.15
No. 15224 Gold bowl 3.65

# Sterling Silver Souvenir Spoons, Guaranteed 925/1000 Fine

**SCHOOL BRIDGE**
Gray handle.

| No. | | Each |
|---|---|---|
| 15225 | Silver bowl | $2.35 |
| 15226 | Gold bowl | 2.65 |

**SIX ASSORTED EMBLEM SPOONS**
Odd Fellow, Eastern Star, Woodmen Circle, Pythian, Mason, Elks.
Flower gray handles.

| | | |
|---|---|---|
| No. 15227 | Silver bowls | per set $16.80 |
| No. 15228 | Gold bowls | per set 18.00 |
| No. 15229 | Single Spoons any emblem listed above | each 3.15 |

**COLLEGE GIRL SPOON**
Gray handle.

| No. | | Each |
|---|---|---|
| 15230 | Silver bowl | $2.15 |
| 15231 | Gold bowl | 2.65 |

**CHRYSANTHEMUM**

| | | Each |
|---|---|---|
| No. 15232 | Silver bowl | $2.80 |
| No. 15233 | Gold bowl | 3.30 |

**DAISY**

| | | Each |
|---|---|---|
| No. 15234 | Silver bowl | $2.80 |
| No. 15235 | Gold bowl | 3.30 |

**LILY OF THE VALLEY**

| | | Each |
|---|---|---|
| No. 15236 | Silver bowl | $2.80 |
| No. 15237 | Gold bowl | 3.30 |

**POPPY**

| | | Each |
|---|---|---|
| No. 15238 | Silver bowl | $2.80 |
| No. 15239 | Gold bowl | 3.30 |

**EASTER LILY**

| | | Each |
|---|---|---|
| No. 15240 | Silver bowl | $2.80 |
| No. 15241 | Gold bowl | 3.30 |

We can furnish seven other flowers in the above designed outline—Carnation, Pond Lily, Violet, Cosmos, Rose, Holly and Wild Rose.

# Sterling Silver Souvenir Spoons
## Guaranteed $\frac{925}{1000}$ Fine

**SIX ASSORTED TEASPOONS**
French gray handles

No. 15242 Silver bowls ..... per set $11.50

**SIX ASSORTED TEASPOONS**
Bright finish. Hand engraved handles.

No. 15243 Silver bowls ...per set $13.65

**SIX ASSORTED TEASPOONS**
Gray and bright handles.

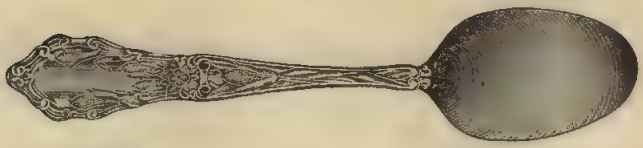
No. 15244 Silver bowls .....per set $10.95
No. 15245 Gold bowls .....per set 13.15

**SIX ASSORTED TEASPOONS**
French gray handles.

No. 15246 Silver bowls ..... per set $15.00
No. 15247 Gold bowls .....per set 17.10

# Fancy Sterling Silver Tea Spoons

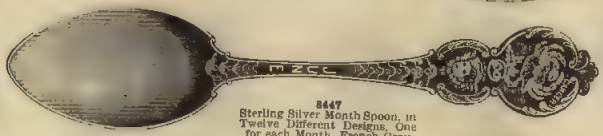
Illustrations Are Full Size.



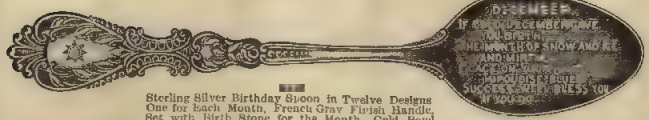
**3444**
Sterling Silver Corn Tea Spoon, French Gray Handle, Gilt Bowl, **$3 00** each

Sterling Silver Flower Teaspoon, French Gray Handle, Gilt Bowl, **$3 20** each.

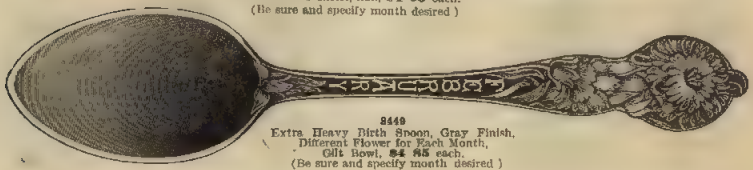
Sterling Silver Flower Teaspoon, French Gray Handle, Gilt Bowl, **$3 20** each.



**3447**
Sterling Silver Month Spoon, in Twelve Different Designs, One for each Month, French Gray Finish Handle, Gilt Bowl, **$3 00** each.
(Be sure and specify month desired.)



Sterling Silver Birthday Spoon in Twelve Designs One for Each Month, French Gray Finish Handle, Set with Birth Stone for the Month, Gold Bowl with Suitable Inscription, **$4 00** each.
(Be sure and specify month desired.)



**3449**
Extra Heavy Birth Spoon, Gray Finish, Different Flower for Each Month, Gilt Bowl, **$4 85** each.
(Be sure and specify month desired.)

**We Guarantee Our Chains to Wear 5, 10 or 20 Years, or We Replace Them Free.**

# Fielders Gloves

Showing Large Little Finger and Straight Thumb.

Our line of finger gloves stands in a class by itself. We have embodied all the newest ideas in construction and have introduced models that are ours in every way. Our glove leathers have been selected and tanned for gloves only, and in consequence we know that they are exactly adapted for the purpose. The highest grade of workmanship and materials, coupled with a thorough understanding of what the big players want, enables us to say that our proposition is the best that can be offered

| No. | | Each. |
|---|---|---|
| 10315 | The glove [illegible] Alaska buckskin like we use in No. 10315. It is made [illegible] stock is the very finest soft buckskin, with leather lining, and the workmanship cannot be surpassed. | $6 00 |
| 10316 | This is made from the genuine Alaska buckskin like we use in No. 10315, and is our leading glove in the smooth palm style. The flexible padding gives the player full control of the fingers. | $5 00 |
| 10319 | Made from the best quality of special tanned French calfskin on our large little finger model. Has the new flexible padding, soft leather lining, welted seams, thumb web, and buckled back. Made with inside heel roll, which gives a perfect pocket. It feels good on the hand. | $6 00 |
| 10320 | This glove [illegible] Boulevard horsehide, which is always very serviceable in high grade gloves. Made with inner heel pad and deep pocket; has leather lining, welted seams, thumb web and buckled back. | $5 00 |
| 10321 | Something new for shortstops and second basemen; made with no padding, so as to keep it extra flat and alive for fast fielding, straight thumb pattern, leather lining, buckled back, welted seams and thumb web. The highest grade of soft, drab horsehide is used in this glove. An easy one to manage. | $5 00 |
| 10322 | A high grade of soft, flexible drab horsehide on a new pattern, with short palm and wide fingers. It was [illegible] at the heel and fit [illegible] meant originally, for second basemen and shortstops. Very carefully made with leather lining, welted seams, thumb web and buttoned back. | $5 00 |
| 10323 | A choice black calfskin glove, made smooth palm style, with leather lining, has thumb web, [illegible] welted seams. | $4 50 |
| 10324 | This is our challenge glove and stands in a class by itself; made on a popular model from selected [illegible] flexible padding, felt lining and web, padded heather at the edges to form a deep pocket; welted seams, thumb web and buttoned back | $4 00 |
| 10325 | A fine glove for those who prefer the drab horsehide; made from selected Cordovan of special [illegible] the new flexible padding, welted seams, thumb web, buttoned back and leather lining. | $4 00 |
| 10326 | This is made on a big pattern in large little finger style; has padding carefully formed for a pocket; the stock is an extra quality drab tan with leather lining. It has thumb web, welted seams and buttoned back. | $3 00 |
| 10327 | Special black tan with leather lining, made on our new pattern, with short palm and wide fingers; has a high grade soft, flexible padding, which makes it easy to handle. Made with thumb web, welted seams, buckled back, and the padding is adjusted so as to give a good pocket. | $3 00 |
| 10328 | This [illegible] glove is a high grade Indian chrome tan with leather lining. It is made with welted seams, buttoned back, [illegible] and [illegible] around the edge to form a pocket. | $3 00 |
| 10329 | This is an extra large glove on the large little finger pattern; heavy padded, with inside ridge; selected brown tan, with felt lining; has buttoned back, thumb web and welted seams. | $2 50 |
| 10330 | Made from [illegible] stock; tan [illegible] has smooth palm with thumb ridge, welted seams, buttoned back and thumb web. It is [illegible] lined. | $2 50 |
| 10331 | A well-made [illegible] glove from selected oak tan leather, has soft, flexible padding, thumb web, heel ridge and buttoned back. | $2 00 |
| 10332 | In tan [illegible] Victor model, with [illegible] heel and wide fingers, plain palm, with leather lining, welted seams, thumb web and buttoned back. | $2 00 |
| 10333 | A very popular glove from black [illegible] stock, with felt lining; made plain front style, with wide fingers and short heel; has [illegible] welted seams and buttoned back; special soft padding which makes it easy to manage a good fitter and feeler. | $2 00 |
| 10334 | Special dressed buck in smooth palm style, with welted seams, thumb web, felt lining and buttoned back | $2 00 |
| 10335 | A black tan glove in plain front pattern, with heavy felt lined palm, has contrasting welts in white; web thumb and buttoned back | $1 50 |
| 10336 | A very serviceable low priced glove; [illegible] stock; [illegible] pattern; made without heel ridge, but heavily padded. Has soft felt lining; [illegible] in thumb and buttoned back. This is good style to this glove | $1 50 |
| 10337 | A good brown tan glove in smooth palm style, with leather lining, welted seams, web thumb and buttoned back | $1 00 |
| 10338 | A strong black tan glove; made smooth palm, without ridge; connecting web in thumb, soft, pliable felt lining and buttoned back. | $1 00 |
| 10339 | Special drab dressed buck, with good, flexible padding; felt lined; with buttoned back and thumb web. | $1 00 |
| 10340 | The popular low cut [illegible] selected brown tan leather, with inside heel ridge, [illegible] lined, well padded, and has buttoned back and thumb web. | $0 50 |
| 10341 | A pleasing glove for boys, in choice brown tan leather; made plain front style, carefully padded with felt lining, thumb web and buttoned back. | $0 50 |

**Don't Hesitate to Write and Ask Questions, we Want you to Know All About Our Goods.**

**"THE HOUSE OF QUALITY"**

SPOONS, FORKS AND OTHER PIECES STAMPED **1847 ROGERS BROS.** ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

*"Silver Plate that Wears"*

# VINTAGE PATTERN

One of the most popular designs in the history of silver plated flatware. The employment of the grape clusters, leaves and tendrils is in eminently good taste, affording a pleasing deviation from the conventional.

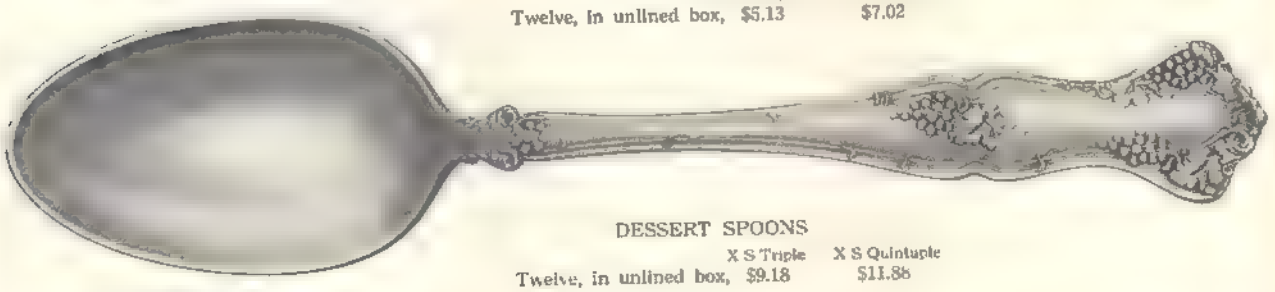
PRICES PER DOZEN

French Grey

ILLUSTRATIONS ACTUAL SIZE

TEA SPOONS

| | X S Triple | X S Quintuple |
|---|---|---|
| Twelve, in unlined box, | $5.13 | $7.02 |

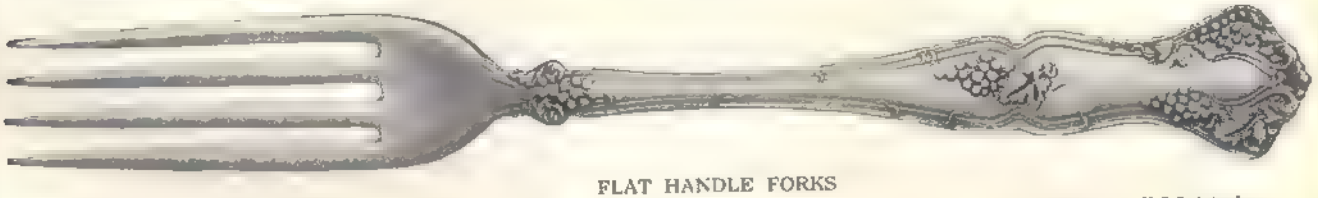


DESSERT SPOONS

| | X S Triple | X S Quintuple |
|---|---|---|
| Twelve, in unlined box, | $9.18 | $11.88 |

TABLE SPOONS

| | X S Triple | X S Quintuple |
|---|---|---|
| Twelve, in unlined box, | $10.26 | $14.04 |



FLAT HANDLE FORKS

| | X S Triple | X S Quintuple |
|---|---|---|
| Dessert Forks, twelve in unlined box, | $9 18 | $11.88 |
| Medium Forks, twelve in unlined box, | $10.26 | $14.04 |

HOLLOW HANDLE KNIVES AND FORKS

Medium Knives, six in flannel roll, per doz., $17 28
Dessert Knives, six in flannel roll, „ „ 16.20

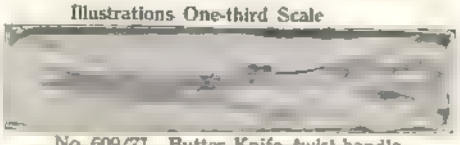
Medium Forks, six in flannel roll, per doz., $17.28
Dessert Forks, six in flannel roll, „ „ 16.20

# VINTAGE PATTERN

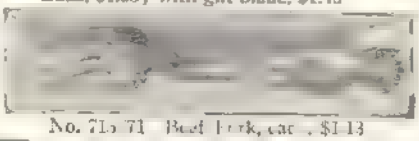
Illustrations One-third Scale

No. 608/71 Sugar Shell, each, $0.95
With gilt bowl, $1.30

No. 604/71 Butter Knife and Sugar Shell
Per set, $1.98; with gilt bowl, $2.34



No. 609/71 Butter Knife, twist handle
Each, $1.08; with gilt blade, $1.43

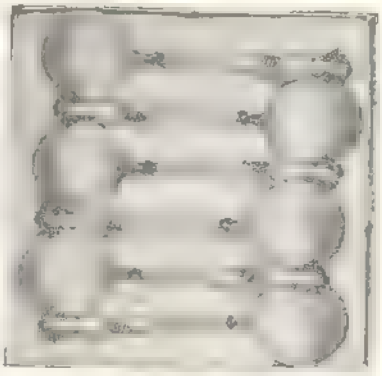


No. 715/71 Beef Fork, each, $1.13

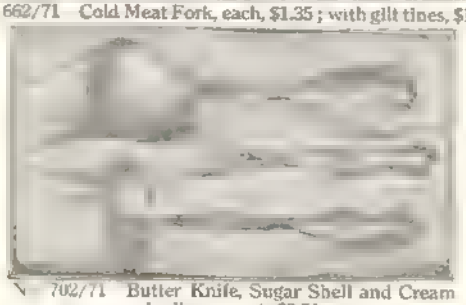
No. 622/71 Six Oyster Forks, per set, $3.40

No. 662/71 Cold Meat Fork, each, $1.35; with gilt tines, $1.89

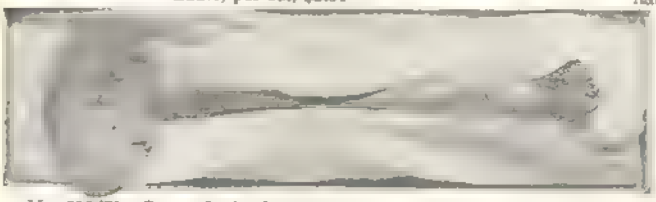
No. 652/71 Six Butter Spreaders, flat handle, per set, $4.59
No. 719/71 Six Butter Spreaders, hollow handle, per set, $6.16



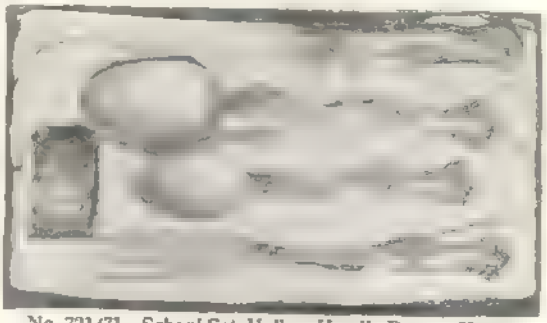
No. 720/71 Six Bouillon Spoons
Per set, $4.86



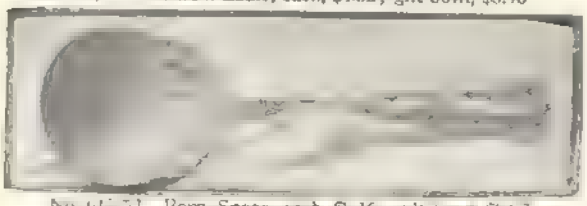
No. 702/71 Butter Knife, Sugar Shell and Cream Ladle, per set, $3.51



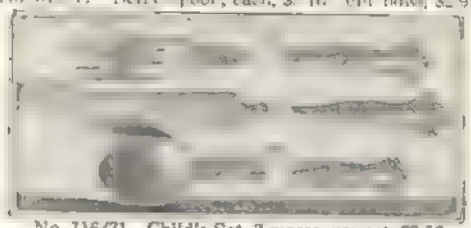
No. 612/71 Oyster Ladle (illustrated), each, $3.51; gilt bowl, $4.41
No. 610/71 Cream Ladle, each, $1.22; gilt bowl, $1.76
No. 611/71 Gravy Ladle, each, $1.62; gilt bowl, $2.43
No. 613/71 Medium Ladle, each, $4.32; gilt bowl, $5.40



No. 721/71 School Set, Hollow Handle Dessert Knife, Dessert Fork and Spoon, Tea Spoon and Napkin Ring, $4.41

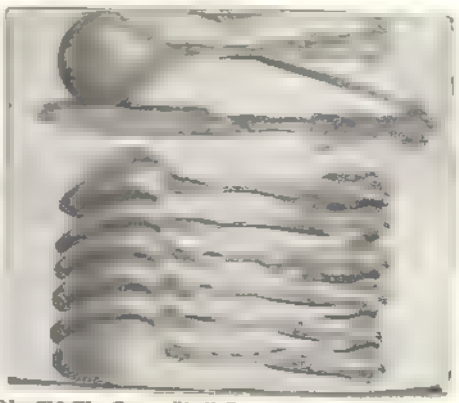


No. 611/71 Berry Spoon, each, $1.16; gilt bowl, $1.97



No. 116/71 Child's Set, 3 pieces, per set, $2.16
No. 593/71 Child's Set, 3 pieces, with Nickel Silver, Silver Soldered Hollow Handle Knife, per set, $2.84
No. 703/71 Child's Set, 3 pieces, and Napkin Ring, with Nickel Silver, Silver Soldered, Hollow Handle Knife, per set, $3.51

Iced Tea
Spoon
Per doz., $7.02



No. 710/71 Sugar Shell, Butter Knife and Six Tea Spoons, per set, $4.86

SPOONS, FORKS AND OTHER PIECES STAMPED **1847 ROGERS BROS.** ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

*"Silver Plate that Wears"*

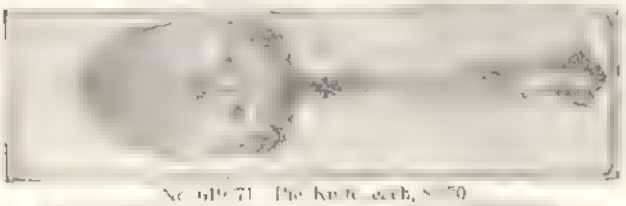
# VINTAGE PATTERN

Illustrations One-third Scale

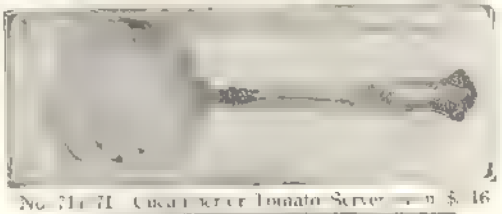
No. 752/71 Six Individual Pastry Forks
Per set, $5.13

No. 714/71 Six Soup Spoons, per set $3.67

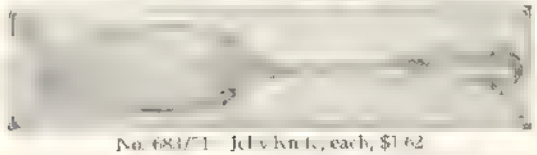
No. 705/71 Sugar Tongs and Six Coffee Spoons, per set, $4.59
No. 624/71 Six Coffee Spoons, without Tongs, per set, $2.54; gilt bowls, $4.16
Sugar Tongs only, each, $1.62



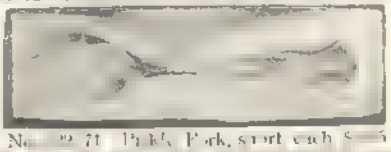
No. 619/71 Pie Knife, each, $1.50



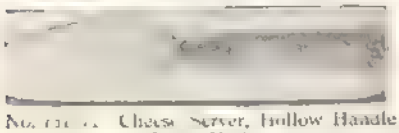
No. 716/71 Cheese Server Tomato Server, each $1.46



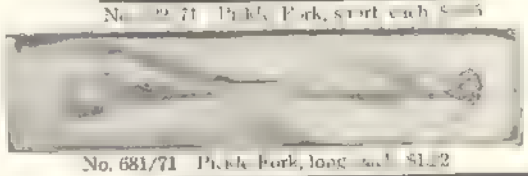
No. 684/71 Jelly Knife, each, $1.62



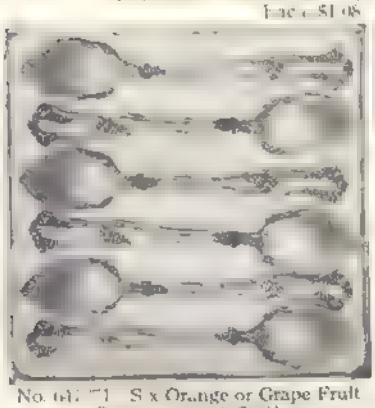
No. 722/71 Pickle Fork, short, each $1.35



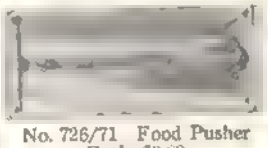
No. 720/71 Cheese Server, Hollow Handle
Each $1.08



No. 681/71 Pickle Fork, long, each $1.62

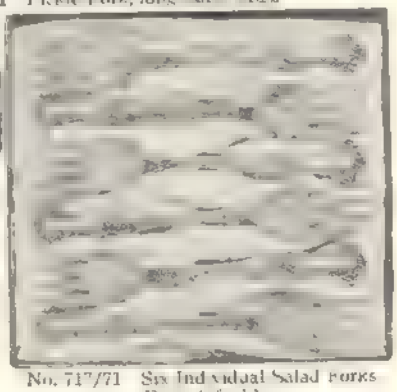


No. 617/71 Six Orange or Grape Fruit Spoons, per set, $3.24



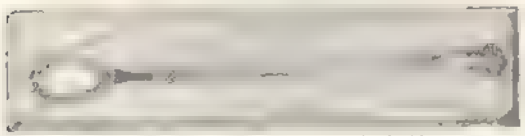
No. 726/71 Food Pusher
Each, $0.68
No. 727/71 Baby Set, Spoon and Food Pusher
Per set, $1.35

No. 725/71 Baby Spoon
Each, $0.68

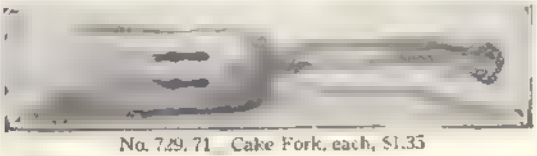


No. 717/71 Six Individual Salad Forks
Per set, $5.13

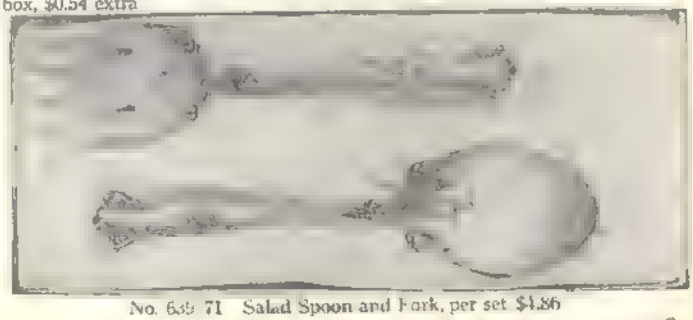
Punch Ladle, flat handle
Each, $6.48; gilt bowl, $8.10
In lined box, $0.54 extra



No. 724/71 Olive Spoon, each, $0.81



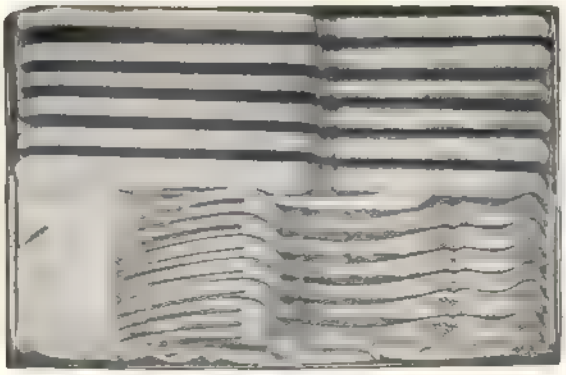
No. 729/71 Cake Fork, each, $1.35



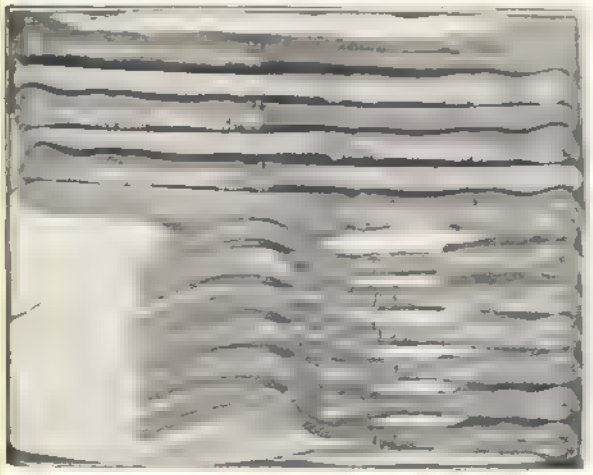
No. 639/71 Salad Spoon and Fork, per set $4.86

# VINTAGE PATTERN

Illustrations
One-third Scale



No. 155½ Vintage. Six each, No. 45 Medium Knives and Flat Handle Medium Forks, per set, $9.21
No. 156½ Vintage. Dessert, per set, $8.64

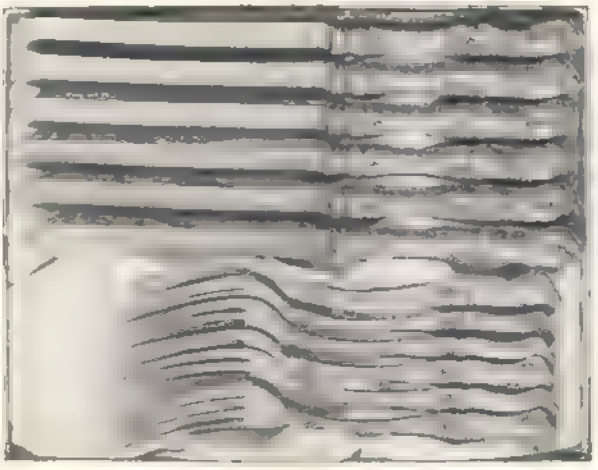


No. 160½ Vintage. Six Hollow Handle Medium Knives and Forks, per set, $17.28
No. 161½ Vintage. Six Hollow Handle Medium Knives and Dessert Forks, per set, $16.74
No. 162½ Vintage. Six Hollow Handle Dessert Knives and Forks, per set, $16.20

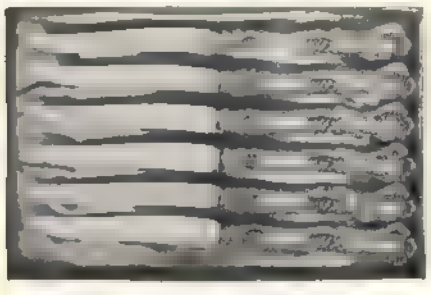
No. 732/71 Bread Knife, hollow handle Each, $2.16

No. 643/71 Cheese Scoop, hollow handle, each, $2.16

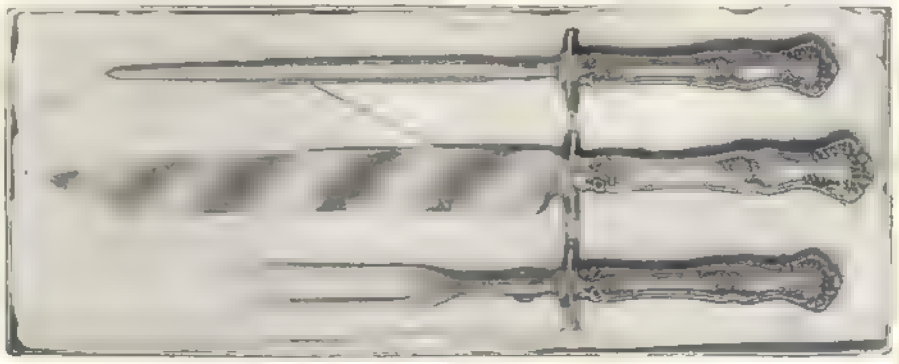
No. 621/71 Pie Server, hollow handle, each, $2.70



No. 158½ Vintage. Six Hollow Handle Medium Knives and Flat Handle Medium Forks, per set, $13.77
No. 159½ Vintage. Dessert, per set, $12.69



No. 738/71 Six Hollow Handle No. 1 Fruit Knives, per set, $6.48
No. 650/71 Six Hollow Handle No. 2 Fruit Knives, per set, $6.48
No. 739/71 Six Hollow Handle No. 2 Fruit Knives, saw back, per set, $7.29



No. 657/71 Carving Set, 3 pieces, per set, $10.80
No. 658/71 Game Set, 2 pieces, " " 7.56
No. 735/71 Breakfast Set, 2 pieces, " " 4.86
No. 734/71 Breakfast Set, 3 pieces, " " 7.02
Nickel Silver, Silver Soldered, Hollow Handles, Steel Blades

# WALTHAM WATCHES

## 12 SIZE

**RIVERSIDE MAXIMUS**
**Nickel**

Adjusted to temperature, isochronism and five positions, double roller, steel escape wheel, gold train, diamond and fine ruby jewels.

| | |
|---|---|
| 23 Jewels, Hunting, Pendant Setting | $123.00 |
| 23 Jewels, Open Face, Pendant Setting | 123.00 |

**RIVERSIDE**
**Nickel**

Adjusted to temperature and five positions, double roller steel escape wheel, fine ruby jewels.

| | |
|---|---|
| 19 Jewels, Hunting, Pendant Setting | $43.00 |
| 19 Jewels, Open Face, Pendant Setting | 43.00 |

**ROYAL**
**Nickel**

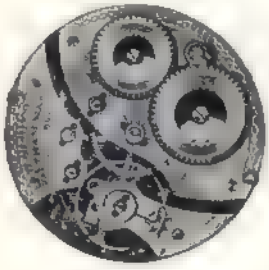
Adjusted to temperature and three positions

| | |
|---|---|
| 17 Jewels, Hunting Pendant Setting | $26.10 |
| 17 Jewels, Open Face, Pendant Setting | 26.10 |

**No. 235**
**Nickel**

Adjusted to temperature; steel escape wheel, sapphire pallets

| | |
|---|---|
| 17 Jewels, Hunting Pendant Setting | $20.00 |
| 17 Jewels, Open Face, Pendant Setting | 20.00 |



**No. 225**
**Nickel**

| | |
|---|---|
| 17 Jewels, Hunting, Pendant Set. | $17.10 |
| 17 Jewels, Open Face, Pendant Set. | 17.10 |

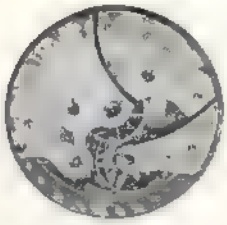
**No. 220**
**Nickel**

| | |
|---|---|
| 15 Jewels, Hunting, Pendant Set. | $13.50 |
| 15 Jewels, Open Face, Pendant Set. | 13.50 |

**No. 210**
**Nickel**

| | |
|---|---|
| 7 Jewels, Hunting, Pendant Setting | $9.50 |
| 7 Jewels, Open Face, Pendant Setting | 9.50 |

## 6 SIZE



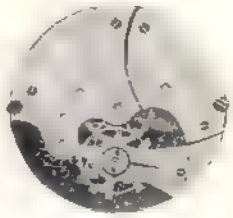
**LADY WALTHAM. Nickel**

Adjusted; ruby jewels.

| | |
|---|---|
| 16 Jewels, Hunting, Pendant Setting | $15.30 |
| 16 Jewels, Open Face, Pendant Set. | 15.30 |

**Y. Nickel**

| | |
|---|---|
| 17 Jewels, Hunting, Pendant Setting | $10.80 |
| 15 Jewels, Open Face, Pendant Set. | 10.80 |



**Y. Nickel**

| | |
|---|---|
| 7 Jewels, Hunting, Pendant Setting | $7.60 |
| 7 Jewels, Open Face, Pendant Setting | 7.60 |

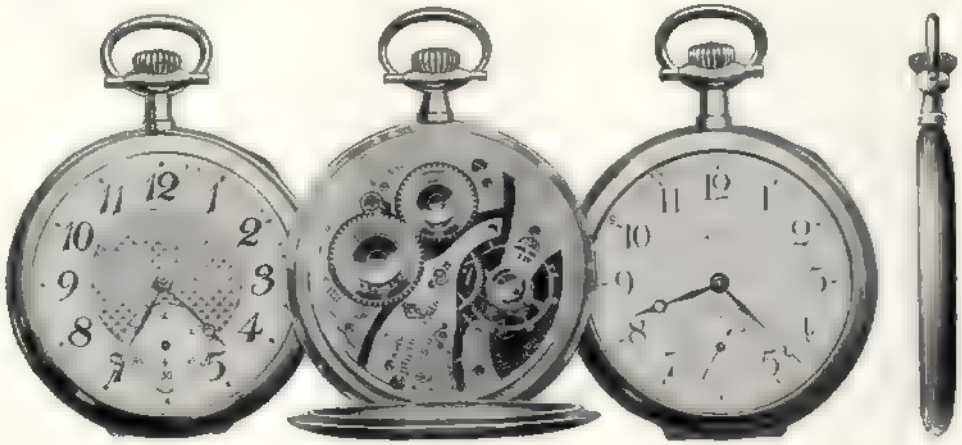
NOTE:—Decorated Dials, all sizes, 90c extra. Metal Gilded and Silvered Dials, all sizes, $1.40 extra, excepting Jewel Series and Colonial Series, no extra charge.

**All orders accepted, subject to prices ruling on date of delivery.**

# WALTHAM WATCHES

# COLONIAL SERIES

The demand for a superfine watch, somewhat smaller and very much thinner than American watches had ever been made for men, was met in the COLONIAL. It is the thin model—as thin as a reliable timepiece can safely be made.



RIVERSIDE MAXIMUS, 23 Jewels, adjusted to temperature, isochronism and five positions.

RIVERSIDE, 19 Jewels, adjusted to temperature, isochronism and five positions.

ROYAL, 17 Jewels, adjusted to temperature and three positions.

No. 1425, 17 Jewels. No. 1420, 15 Jewels.

## PRICE LIST—COMPLETE WATCHES

### 18K. SOLID GOLD HUNTING CASE

| | | |
|---|---|---|
| No. 101 | Riverside Maximus | $214.00 |
| 103 | Riverside | 130.00 |
| 105 | Royal | 118.00 |

### 18K. SOLID GOLD OPEN FACE JOINTED CASE —WITH CAP

| | | |
|---|---|---|
| No. 102 | Riverside Maximus | $189.00 |
| 104 | Riverside | 112.00 |
| 106 | Royal | 100.00 |

### 14K. SOLID GOLD HUNTING CASE

| | | |
|---|---|---|
| No. 107 | Riverside Maximus | $185.00 |
| 109 | Riverside | 110 00 |
| 111 | Royal | 90.00 |
| 113 | No. 1425 | 80 00 |

### 14K. SOLID GOLD OPEN FACE JOINTED CASE—WITH CAP

| | | |
|---|---|---|
| No. 108 | Riverside Maximus | $168.00 |
| 110 | Riverside | 96.00 |
| 112 | Royal | 80 00 |
| 114 | No. 1425 | 69.00 |
| 116 | No. 1420 | 61 00 |

### 14K. SOLID GOLD OPEN FACE CALUMET CASE

| | | |
|---|---|---|
| No. 118 | Riverside | $84.00 |
| 120 | Royal | 68 00 |
| 122 | No. 1425 | 54.00 |
| 124 | No. 1420 | 48.00 |

### GOLD FILLED HUNTING CASE

| | | |
|---|---|---|
| No. 211 | Riverside | $65.00 |
| 213 | Royal | 50 00 |
| 215 | No. 1425 | 41.00 |

### GOLD FILLED OPEN FACE

| | | |
|---|---|---|
| No. 221 | Riverside | $64.00 |
| 223 | Royal | 49.00 |
| 225 | No. 1425 | 40.00 |
| 227 | No. 1420 | 34 00 |

### GOLD FILLED OPEN FACE CALUMET

| | | |
|---|---|---|
| No. 229 | Riverside | $64.00 |
| 231 | Royal | 49 00 |
| 233 | No. 1425 | 40.00 |
| 235 | No 1420 | 34.00 |

All Gold Filled Colonial Series cases are Guaranteed for Twenty-five Years
The above cases are Bassine, Plain Polished, or Engine-Turned
Engraved Hunting cases, $1.80 extra. Engraved Open Face cases, $1.40 extra
Colonial Series Enamel Dials or Metal Dials gilded or silvered at no extra charge

All orders accepted, subject to prices ruling on date of delivery.

# WALTHAM WATCHES

## Equity WATCH

### JOINTED CASE—ACTUAL SIZE

**Seven and fifteen selected jewels, plate jewels in settings; solid nickel plates, finely damaskeened; expansion balance; patent Breguet hairspring; patent detachable balance staff; patent safety steel barrel; exposed pallets; exposed winding wheels; enameled dial.**

**Equity watch movements are cased at the factory, and delivered DIRECT FROM THE FACTORY TO THE JEWELER. The Equity Watch cannot be interchanged, the movement cannot be put into other cases, and sold at a different price.**

**The Equity is the most thoroughly constructed and finely finished low-priced watch ever put on the market.**

**Made in 7 and 15 jewel grade in Hunting and Open Face, Gold-Filled, Silver, Gun Metal and Nickel Cases, as described in the following price list.**

HUNTING

| | | |
|---|---|---|
| 2011 | 15 Jewel, In Gold-Filled, Engraved | $20 00 |
| 2009 | 15 Jewel, In Gold-Filled, Engine Turned | 20 00 |
| 2007 | 15 Jewel, In Gold-Filled, Plain Bassine | 20 00 |
| 2005 | 7 Jewel, In Gold Filled, Engraved | 15 30 |
| 2003 | 7 Jewel, In Gold Filled, Engine Turned | 15 30 |
| 2001 | 7 Jewel, In Gold Filled, Plain Bassine | 15 30 |

JOINTED OPEN FACE

| | | |
|---|---|---|
| 1011 | 15 Jewel, In Gold Filled, Engraved | $17 20 |
| 1009 | 15 Jewel, In Gold-Filled, Engine Turned | 17 20 |
| 1007 | 15 Jewel, In Gold-Filled, Plain Bassine | 17 20 |
| 1013 | 15 Jewel, In Silver, Plain Bassine | 16 00 |
| 1005 | 7 Jewel, In Gold-Filled, Engraved | 13 20 |
| 1003 | 7 Jewel, In Gold-Filled, Engine Turned | 13 20 |
| 1001 | 7 Jewel, In Gold-Filled, Plain Bassine | 13 20 |
| 999 | 7 Jewel, In Silver, Plain Bassine | 12 00 |

S. B. & B. OPEN FACE

| | | |
|---|---|---|
| 1012 | 15 Jewel, In Gold-Filled, Engraved | $16 00 |
| 1010 | 15 Jewel, In Gold-Filled, Engine Turned | 16 00 |
| 1008 | 15 Jewel, In Gold Filled, Plain Bassine | 16 00 |
| 1014 | 15 Jewel, In Nickel, Plain Bassine | 10 50 |
| 1006 | 7 Jewel, In Gold-Filled, Engraved | 12 00 |
| 1004 | 7 Jewel, In Gold-Filled, Engine Turned | 12 00 |
| 1002 | 7 Jewel, In Gold-Filled, Plain Bassine | 12 00 |
| 1000 | 7 Jewel, In Nickel, Plain Bassine | 6 00 |

GUN METAL OPEN FACE

Jointed Back, Snap Bezel
With American Made Gold Filled Bows and Crowns

| | | |
|---|---|---|
| 1020 | 7 Jewel movement, Gun Metal case | $7 50 |
| 1024 | 15 Jewel movement, Gun Metal case | 13 00 |

THE MARSH WATCH
Actual Size

COMPLETE WATCH IN SOLID 14K CASE—12 SIZE
In Solid 14K O. F. Pl. Pol. Case

| | | |
|---|---|---|
| No. 1225 | 225 Movement | $37 00 |
| 1220 | 220 " | 33 20 |
| 1210 | 210 " | 29 00 |

Solid 14K O. F. Engine Turned Case

| | | |
|---|---|---|
| E 1225 | 225 Movement | $38 00 |
| E 1220 | 220 " | 34 20 |
| E 1210 | 210 " | 30 00 |

**The illustration shows the nickel and gold damaskeened movement protector used in Marsh Watches. This protector forms a part of the movement, being attached to the dust band, and is no part of the case. Marsh Watches are sold at a price as low as movements of corresponding grades in light weight, undesirable and unsafe cases.**

RIVERSIDE No. 1240
12 Size

**A complete Riverside Watch in a Special 25-year Gold Filled, Open Face Case,**

**Price, $60.00**

**All orders accepted, subject to prices ruling on date of delivery.**

# WALTHAM WATCHES

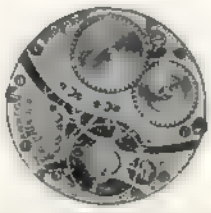
## O SIZE

**RIVERSIDE MAXIMUS. Nickel**

Adjusted; double roller, steel escape wheel gold train, diamond and fine ruby jewels
19 Jewels, Hunting Pendant Set, $58.00
19 Jewels, Open Face, Pendant Set. 58.00

**RIVERSIDE. Nickel**

Adjusted; double roller, ruby jewels.
17 Jewels, Hunting, Pendant Set $40 00
17 Jewels, Open Face, Pendant Set 40 00



**LADY WALTHAM. Nickel**

Adjusted; double roller, ruby jewels.
16 Jewels, Hunting, Pendant Set. $23.40
16 Jewels, Open Face, Pendant Set. 23.40

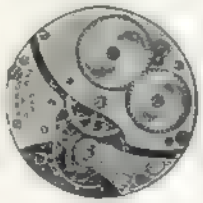
No. 165, HUNTING
No. 115, OPEN FACE

**No. 165, HUNTING and No. 115, OPEN FACE. Nickel**

Double roller.
15 Jewels, Hunting, Pendant Set. $16.20
15 Jewels, Open Face, Pendant Set. 16.20

**No. 161, HUNTING and No. 110, OPEN FACE. Nickel**

7 Jewels, Hunting, Pendant Set. $10.80
7 Jewels, Open Face, Pendant Set. 10.80



No. 161, HUNTING
No. 110, OPEN FACE

## JEWEL SERIES

**DIAMOND. Nickel**

Adjusted; steel escape wheel, gold train, diamond and ruby jewels
17 Jewels, Hunting, Pendant Set. $68.00
17 Jewels, Open Face. Pendant Set 60 00

RIVERSIDE

RUBY

**RIVERSIDE. Nickel**

Adjusted; steel escape wheel, fine ruby jewels.
17 Jewels, Hunting, Pendant Set. $42 00
17 Jewels, Open Face, Pendant Set. 42 00

**RUBY. Nickel**

17 Jewels, Hunting, Pendant Set. $27.00
17 Jewels, Open Face, Pendant Set. 27 00

**SAPPHIRE. Nickel**

16 Jewels, Hunting, Pendant Set $24.30
15 Jewels, Open Face, Pendant Set. 24.30

**Prices given are for movements only; prices for complete Jewel Series watches given on application**

## WALTHAM WRIST WATCHES

CONVERTIBLE LIKE ILLUSTRATION, ALSO WITH STRAP AND BUCKLE

**By unfastening the bracelet from the Convertible Wrist Watch, the watch can be worn as any other would be, either chatelaine, on a chain like a locket, or in the pocket.**

All Waltham Wrist Watches wind at 12 and the crown is protected by a patent bow

No extra charge for metal gilded or silvered dials on Jewel Series or Wrist Watches

### PRICE LIST

JEWEL SERIES—Convertible

| RUBY | | | | SAPPHIRE | | |
|---|---|---|---|---|---|---|
| No. 1 | 4" Bracelet | $67.00 | 14k Case and 14k Bracelet | No. 5. | 4" Bracelet | $64.40 |
| 16. | 5' Bracelet | 69.00 | | 56. | 5" Bracelet | 66 40 |
| 17. | 5½" Bracelet | 72 00 | | 57. | 5½" Bracelet | 69.40 |
| No. 2 | 4" Bracelet | $50 00 | 14k Case and Filled Bracelet | No. 6. | 4" Bracelet | $47.40 |
| 26 | 5 Bracelet | 50.00 | | 65. | 5" Bracelet | 47.40 |
| 27 | 5½" Bracelet | 50.00 | | 67. | 5½" Bracelet | 47 40 |
| No 3. | 4" Bracelet | $40.00 | Filled Case and Filled Bracelet | No. 7. | 4" Bracelet | $37 40 |
| 36. | 5" Bracelet | 40.00 | | 76. | 5" Bracelet | 37 40 |
| 37 | 5½" Bracelet | 40.00 | | 77. | 5½" Bracelet | 37 40 |

JEWEL SERIES—Not Convertible

Fitted with Imported Leather Straps and Gold Buckles

| | | | | | | |
|---|---|---|---|---|---|---|
| No. 10. | Ruby | $51.50 | 14k Case | No. 12 | Sapphire | $48.50 |
| No. 11. | Ruby | 44.00 | Filled Case | No. 13. | Sapphire | 41 80 |

The above combinations can also be supplied in O size. Prices on application

**All orders accepted, subject to prices ruling on date of delivery.**

# Waterbury New England Watches

Harris Whittemore
John P. Elton
} Receivers

## New England Watch Company

Waterbury, Connecticut

# WATERBURY-NEW ENGLAND WATCHES

# HALE

Twelve Size
13111

Six Size
13171

Sixteen Size
13101

Lever Movement
Six Size

Lever Movement
Twelve and Sixteen Size

Engine Turned Design

13170

Engraved Design

Double roller lever movement, jeweled, backing pins, quick train, two case screws, screw balance, nickel damaskeened plates, all train wheels cut pinions hardened and polished. Twelves and sixteens have pull to set, six size has pull out set. Dated safety barrel. Cases are ten-year gold filled or nickel, black nickel, gun metal, open face only, porcelain dials unless metal are specified.

## PRICES

### Six Size

| | Nickel | To Dealers |
|---|---|---|
| 13170 | Plain Polished arched to Seal or Pug (Black Strap | $4 50 |
| 13171 | Plain Polished | 3 40 |
| 13172 | Black Nickel Dull Finish not warranted | 3 40 |
| 13173 | Engine Turned to Spot | 3 40 |
| 13177 | Engraved Design | 3.40 |
| | **Ten-Year Gold Filled** | |
| 13481 | Plain Polished | 6 50 |
| 13483 | Engine Turned to Spot | 6 50 |
| 13487 | Engraved Design | 6.50 |

### Twelve Size

| | Nickel | To Dealers |
|---|---|---|
| 13111 | Plain Polished | $3 40 |
| 13113 | Engine Turned to Spot | 3 40 |
| 13121 | Black Nickel Dull Finish not warranted | 3 40 |
| 13127 | Engraved Design | 3.40 |
| | **Gun Metal** | |
| 13211 | Plain Dull Finish not warranted | 5.00 |
| | **Ten-Year Gold Filled** | |
| 13411 | Plain Polished | 6 50 |
| 13413 | Engine Turned to Spot | 6.50 |
| 13427 | Engraved Design | 6 50 |

### Sixteen Size

| | Nickel | To Dealers |
|---|---|---|
| 13101 | Plain Polished | $3.40 |
| 13102 | Black Nickel Dull Finish (not warranted) | 3.40 |
| 13103 | Engine Turned to Spot | 3.40 |
| 13107 | Engraved Design | 3.40 |
| | **Ten-Year Gold Filled** | |
| 13401 | Plain Polished | 6.50 |
| 13403 | Engine Turned to Spot | 6 50 |
| 13407 | Engraved Design | 6 50 |

Prices subject to Keystone and Jewelers Circular Key

WATERBURY-NEW ENGLAND WATCHES

# THE NEW "WATERBURY" *10 Ligne*

33442

Seven Jeweled
Lever Movement

33441

33440

## Prices

| | | To Dealers |
|---|---|---|
| 33440 | Attached to Marsh Bracelet | $24.00 |
| 33440 | Ready to attach to any desired Expansion Bracelet | 16.50 |
| 33441 | Plain Polished or Roman | 15.50 |
| 33442 | Ready to Attach to Strap | 16.50 |

Solid Gold Cases. Prices on application.

Double roller lever movement, seven jewels, steel safety barrel, nickeled, damaskeened plates, exposed pallet, exposed gilded train wheels, recoil, crank, pull out set, second hand, Waterbury or Alden dials. Twenty-year gold filled cases, open face only, porcelain dials.

# CAVOUR *15 Ligne*

6921

9601
6251
6061

Lever Movement

Metal Dial

9605

9657

9607

9600

Double roller lever movement, bridged, jeweled, take out, damaskeened, banking pins, recoil, Cases of twenty-year gold filled, sterling silver, gun metal, nickel, open face only.

9602-6252
6922

## Prices

| | Nickel | To Dealers |
|---|---|---|
| 6061 | Plain Polished | $ 7.00 |
| | **Sterling Silver** | |
| 6251 | Plain Polished or Satin | 8.50 |
| 6252 | Attached to Seal or Pigskin strap | 10.00 |
| | **Gun Metal** | |
| 6921 | Plain Case (not warranted) | 7.90 |
| 6922 | Attached to Seal or Pigskin strap | 10.00 |

| | Twenty-Year Gold Filled | To Dealers |
|---|---|---|
| 9600 | Attached to Expansion Bracelet | $13.50 |
| 9601 | Plain Polished or Roman | 9.80 |
| 9602 | Attached to Seal or Pigskin Strap | 12.00 |
| 9605 | Engine Turned to Shield | 9.80 |
| 9607 | Engraved Top and Bottom | 9.80 |
| 9657 | Fancy Engraved | 9.80 |

Prices subject to Keystone and Jewelers Circular Key

# WATERBURY-NEW ENGLAND WATCHES

# ALDEN

*Sixteen Size*

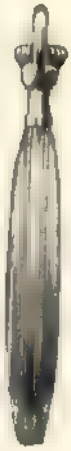
31411
31421

Lever Movement
Seven Jewels

Metal Dial

31426

31427



31141

31143

Double roller lever movement, seven jewels, breguet hairspring, expansion balance, tempered steel safety barrel, nickel cam-shaped plates, exposed bridged pallet, exposed winding wheels, exposed and red gilded train wheels, recoil click, pull out set. Twenty year gold filled and nickel cases, open face only, porcelain or metal dials.

## Prices

| | | To Dealers |
|---|---|---|
| | **Nickel** | |
| 31141 | Screw Case Plain Polished | $7 00 |
| 31143 | Screw Case Engine Turned to Spot | 7 00 |
| | **Twenty-Year Gold Filled** | |
| 31411 | Screw Case Plain Polished or Roman | 12 00 |
| 31421 | Jointed Back Plain Polished or Roman | 12.00 |
| 31425 | Jointed Back Engine Turned to Shield | 12 00 |
| 31427 | Jointed Back Engraved Top and Bottom | 12.00 |

Prices subject to Keystone and Jewelers' Circular Key

# Kohlmann Baby Grand Pianos

Width, 4 feet 8 inches
Length, 5 feet 8 inches

No. 16195
Genuine Circassian Walnut
**$1,333.35**

## DESCRIPTION.

All Kohlmann Grand Pianos are constructed along modern and improved lines and have attained a perfection of tonal quality and capacity —a clearness and purity—not found in many of the older makes.

The workmanship is of the highest standard, the architectural designs are refined, chased and imposing; the veneers used are specially selected for their beautiful grains and are finished in their natural colors.

This style is finished in Circassian Walnut and represents a composite of the Sheraton and Colonial Period architecture. It is double veneered throughout; legs and lyre proportioned in harmony with case; continuous hinges on top and fall-board; leg-ends encased in brass socket castors

### Specifications of Interior Construction.

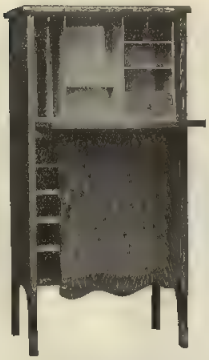
Full metal .frame; full copper overstrung bass; three pedals; bushed tuning pins; laminated acoustic rim; capo d'astro bar; double repeating action, perfectly regulated. The scale is ideally even; the Key-touch is delicate and responsive and will sustain all demands of either the advanced artist or the beginner

Write for Our Special Piano Catalogue

**MUSIC CABINET**

Made of fine selected oak, quarter-sawed front and top. Golden oak finish, highly polished. Height, 37 inches; width, 18 inches; weight crated, about 60 pounds. Also mahogany finish

No. 6482C Oak .....each $25.45
No. 6482CM Mahogany.each 29.45



**COMBINATION MUSIC CABINET AND DESK**

Made of selected oak. Quarter-sawed front and top. Golden oak finish, highly polished, fitted with a 6 x 8 swinging mirror in center, inside. Height, 41 inches, width, 30 inches; weight crated, about 85 pounds. Also made in mahogany finish.

No. 6492C Oak .....each $39.40
No. 6492CM. Mahogany.each 39.40

**MUSIC ROLL CABINET**

Made of selected hardwood mahogany finish, highly polished. Height, 40 inches; width, 18 inches depth, 18 inches. Holds about 45 large rolls. Weight crated, about 70 pounds.

No. 9002 . . . . . each $37.50

**MUSIC ROLL CABINET**

Made of selected quarter-sawed oak. Veneered doors and drawers. Golden oak finish. Highly polished. Height, 33 inches, width, 19 inches, depth, 16½ inches. Holds about 40 large size rolls. Weight crated, about 65 pounds. Also made in mahogany finish.

No. 9112 Oak .....each $47.90
No. 9112M Mahogany each 47.90

# KOHLMANN PIANOS

## Stool Included with Each Piano

### Kohlmann Colonial Grand

A plain but artistic design. Case is double veneered inside and out; outside with fancy mahogany and oak veneer, inside with white maple Colonial in design. Pilasters and trusses to match its appearance; full empire top, drop mouldings, making the case very symmetrical and refined.

Full overstrung scale, 7⅓ octaves, hardwood back, six posts, imported German tuning pins and wire; 13-lb. hammers; laminated pin block, compound key bottom, triple repeating action, splendidly regulated. Ivory keys and 3 nickel-plated pedals.

We can furnish this piano in plain top panel or with some ornamentation. This instrument is guaranteed for ten years from date of its manufacture, and is furnished in beautifully figured mahogany and fancy oak veneers.

Height, 4 feet 8½ inches; width, 5 feet 4½ inches; depth, 2 feet 3½ inches.

| | | |
|---|---|---|
| No. 16172 | Mahogany..... | $345.90 |
| No. 16173 | Golden Oak ..... | 345.90 |
| No. 16174 | Dark English Oak..... | 345.90 |

### Kohlmann Parlor Grand

This instrument is beautifully designed, pleasing in its appearance, having hand-carved trusses and pilasters which gives this piano a very symmetrical and attractive appearance. Is massive in its construction, double veneered inside and out; furnished in beautiful walnut, mahogany and oak veneers. A very substantial back, made of hardwood posts (six), laminated pin block, consisting of five layers of wood, crossing one another at right angles, and made up from the choicest rock maple. Sounding board of the best quality of spruce and ribs of the same material, which are notched into the lining and acoustic rim. The toe blocks and arms are all laminated construction. Keyboard is so constructed as to withstand all atmospheric changes.

This instrument is equipped with full bronzed plate, reaching from top to bottom; bushed tuning pins; copper bass; music wire of German importation and imported German tuning pins. Is equipped with splendid triple repeating action, best quality of 13-pound hammers, and ivory keys.

Height, 4 feet 8 inches; width, 5 feet 4½ inches; depth, 2 feet 3½ inches.

| | | |
|---|---|---|
| No. 16175 | Mahogany..... | $425.50 |
| No. 16176 | Walnut. ..... | 425.50 |
| No. 16177 | Golden Oak..... | 425.50 |
| No. 16178 | Dark English Oak..... | 425.50 |

The possession of a piano denotes a sense of refinement and a desire for the betterment of the family.

# KOHLMANN PIANOS

## Stool included with each Piano

## Kohlmann Empire Grand

Exquisite semi-empire design, empire top; case double veneered throughout and lined inside with white maple. Case has very handsome hand carved pilasters and top panel ornaments.

Veneers used are of the best quality in mahogany, walnut and oak. This instrument has a beautiful scale, well balanced, with splendid tone results; full plate; bushed tuning pins. Genuine imported strings and tuning pins. Laminated Bridges, both treble and bass. 3-ported hammers of the best domestic quality. Billings brass flange action, copper wound bass strings, ivory keys, patent noiseless trap work; double wheel castors.

Back consists of six rock maple posts, scientifically constructed and well finished. The exterior is pleasing in design and splendidly finished. Instrument warranted for ten years.

Plain highly polished panel may be had on order.
Height, 4 feet 10 inches; width, 5 feet 4½ inches, depth, 2 feet 3½ inches.

| | | |
|---|---|---|
| No. 16179 | Mahogany | $527.00 |
| No. 16180 | Walnut | 527.00 |
| No. 16181 | Golden Oak | 527.00 |
| No. 16182 | Dark English Oak | 527.00 |

## Kohlmann Imperial Grand

**Grand Scale Upright, 7⅓ Octaves, Hand-carved pilasters and art panel**

**Description:**

This piano is double veneered throughout in remarkably beautiful walnut and mahogany veneers, hand-carved pilasters of handsome design, together with beautifully designed art panel, giving this piano a very distinctive and individual appearance. Extra heavy quarter sawed rock maple back giving great strength and rigidity which will withstand all tension imposed on a first-class instrument. The scale, tone, touch and action are all that could be desired in a high-class instrument.

**Specifications of Interior Construction:**

This piano is furnished with either continuous brass flange action or Billings brass flange; 14-pound imported hammers; copper strings; empire top, top being hinged in Grand Piano style; fine ivory keys. Piano is equipped with laminated acoustic rim; laminated bridges; laminated Pin Block; compounded key bed, which will insure absolute stability and uniformity of touch, and is not subject to atmospheric changes. Is equipped with patented steel trap work absolutely noiseless and mouse-proof.

Height, 4 feet 10 inches, width, 5 feet 4½ inches; depth, 2 feet 2½ inches.

| | | |
|---|---|---|
| No. 16183 | Mahogany | $666.70 |
| No. 16184 | Walnut | 666.70 |
| No. 16185 | Golden Oak | 666.70 |
| No. 16186 | Dark English Oak | 666.70 |

"A piano in the home, once a rarity, then a proud possession of the wealthy, is now a necessity"

# KOHLMANN PLAYER PIANOS

## The Most Wonderful Invention of the Twentieth Century

After a most careful study and experimentation of the many players on the market we offer the Kohlmann Player Piano as one that is worthy and fitted to bring out the musical excellence. It is a perfected piece of mechanism that is beyond criticism of the most gifted player We present a Standard Player of the most approved type at the price of an ordinary piano

The Kohlmann Player Attachment consists of three principal units the Motor Action located back of the upper panel of which the Music Rolls are a part. The Vacuum System in a one-piece unit placed behind the lower part, beneath the Key Board and the Pneumatic System placed behind the Fall Board above the Key Board

These three principals are connected together with the piano-action by many ingenious parts that have been worked out and improved to a point approaching perfection All of these parts and fixtures are out of sight and the only outward appearance of them is the music-roll, the pedals, three buttons and a tempo lever. The music-roll and pedals practically vanish when the player-attachment is not in use. The music-roll disappears from sight behind ornamental panels and the pedals retreat leaving only their small ends visible on each side of the piano pedals. The three buttons—one being sustaining or "loud" pedal the other two 'soft treble and bass—together with the tempo lever, take care of "tempo" and intensity ', these are all very accessible to the player and extremely easy to operate. They enable the user, with but very little practice to render most satisfying and 'accented" music with delicacy of expression and nice musical effect

**THE MOTOR** is one of the strongest features of the Kohlmann make of player-piano. It is a metal, three-cylinder motor with top and bottom impulse to each of the three pistons which makes it a six-point action. This little engine is the very heart of the organism and its rhythmic action operates, regulates and controls the working of the entire action

There are no complications about this motor; it occupies but little space and its lightness and efficiency are amazing; its simplicity makes it trouble-proof and it will not get out of adjustment with constant and hard usage

**THE GOVERNOR** is an essential and necessary adjunct of the motor in that it automatically imparts to the engine a steady pneumatic pressure whenever the pedals are worked fast or slow Governor is provided with a special form of valve and this with two adjusting set-screws constitute the only parts employed

**THE PEDALS** in the Kohlmann player fold up and slide into the case at the bottom beside the regular piano pedals and when thus slid in reveal only their very small ends. These pedals are a great improvement over most others in the matter of ease of operation and the immense leverage exerted Their use will not tire even a small child. They have eliminated the item of fatigue from player-pianos

**OTHER FEATURES** of the player action are the general high grade quality of materials used, the fine alignment and balance of the works and the assured durability of the whole

**Player Bench and Six Player Rolls included.**

### Kohlmann Cabinet Grand

7⅓ Octaves

**CASE** is very chaste and dignified in appearance and altogether a stately instrument of delightful individuality, possessing an air of refinement that makes a fit setting for either elegant or comely surroundings The symmetrical treatment of upper panel is very striking. An ornate cornice moulding runs across the entire top of this panel being overhung by the piano-top, three smaller panels are moulded off from this cornice, the center, or larger of these three having the music roll opening which is protected by a sliding door (shown partly open in the illustration), while a richly carved wreath embellishes the center of each of the other two panels. Trusses are square and tapering with hand carved cape; pilasters are fluted and have top and bottom ornaments. Handsomely finished in high-grade veneers of either Oak, Walnut or Mahogany, inside veneered with White Maple, has Empire top with "Grand" hinges.

**BACK** is uncommonly strong in construction, having six finished posts of Rock Maple. Bridges, in both treble and bass, as well as accurate rim and pin-block, are built-up (laminated) from the same durable wood, while the ribs and sounding board are of the highest quality of Mountain Spruce, the latter being crowned to preserve a lasting quality of tone

**INTERIOR** has compound key-board; double Bullings' repeating brass-flange action; 14-pound hammers; laminated bridges, in treble and bass; extra heavy re-enforced bell metal plate, imported German tuning pins and wire, copper-wound bass, continuous hinges on fall board; 3 brass pedals; 7⅓ octaves

**PLAYER ATTACHEMENT.** All standard music may be used. Made regularly in 88 note; 65 note made to order.

Height, 4 feet 9 inches; width, 5 feet 3½ inches; depth, 2 feet 3½ inches.

| | | |
|---|---|---|
| No. 16187 | Mahogany | $930.00 |
| No. 16188 | Walnut | 930.00 |
| No. 16189 | Golden Oak | 930.00 |
| No. 16190 | Dark English Oak | 930.00 |

### Kohlmann Colonial Grand

**CASE** is of attractive proportions and delightfully symmetrical. The square fluted trusses with pilasters to correspond bestow a noticeable air of grace to the architecture while the square, high cut cheek is suggestive of colonial simplicity. Trusses have molded bases and carved caps; pilasters have top and bottom ornaments. Lower panel is unbroken which brings out strongly the exquisite texture and finish of the veneer, upper panel is relieved by smaller center panel in center of which is sliding door covering music roll Inside of case veneered in White Maple. Has Empire top and "grand" hinges.

**BACK** is our regular sturdy and durable construction. Six Rock Maple posts give a wall of strength to the instrument. Accoustic rim and bridges (both treble and bass) are of quarter sawed Rock Maple the ribs and sounding board of choicest Northern Spruce. Sounding board specially crowned to sustain string pressure and maintain lasting tone. Pin block of quarter sawed Rock Maple

**INTERIOR:** Specifications embrace brass flange action of exceptional quality and great responsiveness, copper-wound bass strings music wire and tuning pins of finest imported quality imported 14-pound hammers, three pedals, absolutely noiseless metal trap work, double wheeled casters fine ivory keys. Scale is exceptionally well balanced and acoustic quality is grand. Has a beautiful and sonorous tone of exceptional sweetness.

**PLAYER ATTACHMENT:** 88 note. All standard music may be used

Height, 4 feet, 8 inches, width, 5 feet, 6¾ inches, depth, 2 feet, 3½ inches.

| | | |
|---|---|---|
| No. 16191 | Mahogany | $1105.00 |
| No. 16192 | Walnut | 1105.00 |
| No. 16193 | Golden Oak | 1105.00 |
| No. 16194 | Dark English Oak | 1105.00 |

**SPECIAL OFFER!** With each Kohlmann Player Piano we will include high grade Player Bench, to match piano, and SIX Standard Perforated Music Rolls FREE.

# COMMUNITY SILVER

## VISIBLE PROOF OF WEARING QUALITY

*You Can Show Your Customers the Extra Silver*

THE LATEST wear-resisting improvement in Community Silver is so evident that you can point it out to your customers, and thus increase your sales. It is a circular disc of pure silver *overlaid* at the wearing points of every

## COMMUNITY SILVER

spoon and fork. This special wearing point protection is in addition to Community Silver's superbly heavy plate and makes it practically wear proof in ordinary family use, so we now *guarantee it for 50 years.*

The same *quality improvement* has also been applied to RELIANCE PLATE. It has been given the same wearing-point *Overlay* as Community Silver, and the plate over the entire piece has been increased. We now *guarantee Reliance Plate for 25 years.*

Moreover, you have in Community Silver and Reliance Plate these important advantages: Patterns of unusual excellence; extraordinary service value for the money; strong backing of effective advertising; and above all a restricted selling price, maintained on such a basis that a generous profit for you is assured.

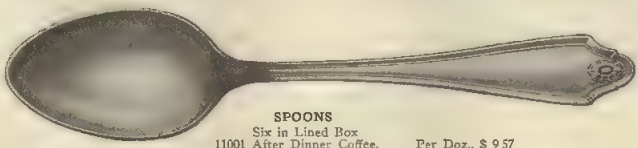
ONEIDA COMMUNITY, LTD

Community Silver Patterns which are protected by U. S. Letters Patent must not be advertised or sold below our established re-sale prices. These prices may be obtained from us.

# COMMUNITY SILVER

**Note the rich simplicity of the new Georgian design—the fluted bowl and the pure colonial lines. It makes a beautiful appearance on the table.**

**The Georgian, like all Community Silver designs, is made only in the heaviest plate—silver overlaid, it is called.**



**SPOONS**

Six in Lined Box

| | | | |
|---|---|---|---|
| 11001 | After Dinner Coffee, | Per Doz., | $ 9 57 |
| 11002 | Gilt After Dinner Coffee, | " " | 14.75 |
| | Six in Unlined Box | | |
| 11003 | Five O'Clock Tea, | " " | 9 57 |
| 11004 | Tea, | " " | 9.57 |
| 11005 | Dessert, | " " | 17 37 |
| 11006 | Table, | " " | 19.10 |

**FLAT HANDLE FORKS**

Six in Unlined Box

| | | | |
|---|---|---|---|
| 11007 | Dessert, | Per Doz., | $17.37 |
| 11008 | Medium, | " " | 19.10 |

**HOLLOW HANDLE KNIVES**

Six in Flannel Roll

| | | | |
|---|---|---|---|
| 11009 | Medium, | Per Doz., | $30.75 |
| 11010 | Dessert, | " " | 29.70 |
| 11011 | Medium, Scimitar and Swaged, | " " | 31.27 |
| 11012 | Dessert, Scimitar and Swaged, | " " | 30.25 |

**HOLLOW HANDLE FORKS**

Six in Flannel Roll

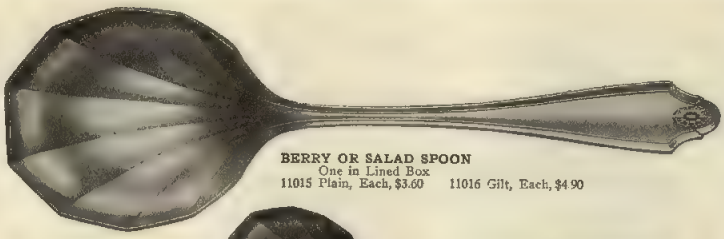
| | | | |
|---|---|---|---|
| 11013 | Medium, | Per Doz., | $30.75 |
| 11014 | Dessert, | " " | 29.70 |

Reproduction same size.

GEORGIAN DESIGN

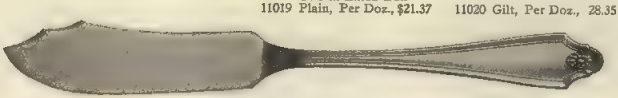
**Community Silver must not be advertised or sold below the established re-sale prices. These prices may be obtained from us.**

# COMMUNITY SILVER

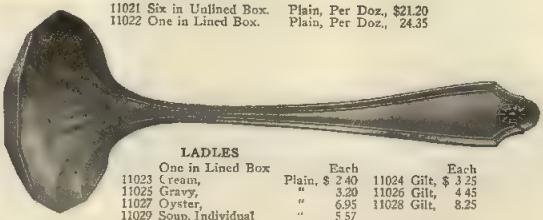


**BERRY OR SALAD SPOON**
One in Lined Box
11015 Plain, Each, $3.60 11016 Gilt, Each, $4.90

**SUGAR SHELL**
Six in Unlined Box
11017 Plain, Per Doz., $18.07 11018 Gilt, Per Doz., $25.03
One in Lined Box
11019 Plain, Per Doz., $21.37 11020 Gilt, Per Doz., 28.35



**BUTTER KNIFE**
11021 Six in Unlined Box. Plain, Per Doz., $21.20
11022 One in Lined Box. Plain, Per Doz., 24.35



**LADLES**

| One in Lined Box | | Each | | Each |
|---|---|---|---|---|
| 11023 Cream, | Plain, | $ 2.40 | 11024 Gilt, | $ 3.25 |
| 11025 Gravy, | " | 3.20 | 11026 Gilt, | 4.45 |
| 11027 Oyster, | " | 6.95 | 11028 Gilt, | 8.25 |
| 11029 Soup, Individual | " | 5.57 | | |
| 11031 Med. Soup, | " | 8.70 | 11030 Gilt, | 10.43 |
| 11032 Hol Handle Punch, | " | 14.50 | 11033 Gilt, | 16.65 |

**COLD MEAT FORKS**
One in Lined Box
11034 Plain, Each, $2.32 11035 Gilt, Each, $3.20

Reproduction three-fourths size

GEORGIAN DESIGN

Community Silver must not be advertised or sold below the established re-sale prices. These prices may be obtained from us.

# COMMUNITY SILVER

**SOUP SPOON**
11036 Six in Unlined Box. Per Doz., $19.10

**BOUILLON SPOON**
Six in Lined Box
11037 Plain, Per Set, $8.20

**HOLLOW HANDLE BUTTER SPREADER**
11038 Six in Lined Box Per Set, $13.90

**ORANGE SPOON**
Six in Lined Box
11039 Plain, Per Set, $6.25
11040 Gilt, " " 9.75

**HOLLOW HANDLE ORANGE KNIFE**
11041 Six in Lined Box. Per Set, $14.70

**SUGAR TONGS**
One in Lined Box
11042 Each, $2.57

**HOLLOW HANDLE FRUIT KNIFE**
11043 Six in Lined Box. Per Set, $13.90

**FLAT HANDLE BUTTER SPREADER**
Six in Lined Box
11044 Plain, Per Set, $7.63

**HOLLOW HANDLE PIE SERVER**
11045 One in Lined Box. Each, $5.25

Reproduction one-half size.

GEORGIAN DESIGN

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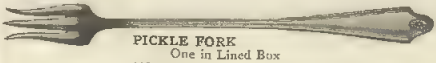
# COMMUNITY SILVER

**HOLLOW HANDLE CHEESE SCOOP**
11046 One in Lined Box. Each, $4.65

**ICED TEA SPOON**
Six in Unlined Box
11047 Plain, Per Doz., $12.50

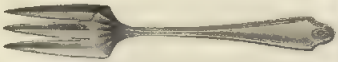
**BABY FORK**
11048 One in Lined Box. Each, $1.25



**PICKLE FORK**
One in Lined Box
11049 Plain, Each, $1.90
11050 Gilt, " 2.45

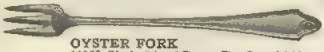
**BABY SPOON**
One in Lined Box
11051 Plain, Each, $1.25
11052 Gilt, " 1.70

**PIE FORK**
Six in Unlined Box
11053 Per Doz., $17.37



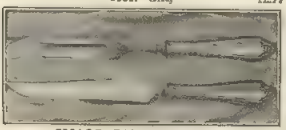
**SMALL COLD MEAT FORK**
One in Lined Box
11054 Plain, Each, $1.90
11055 Gilt, " 2.45

**INDIVIDUAL SALAD FORK**
Six in Lined Box
11056 Plain, Per Set, $ 9.30
11057 Gilt, " 12.77

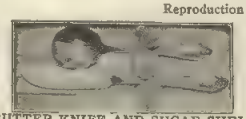


**OYSTER FORK**
11058 Six in Lined Box. Per Set, $6.10

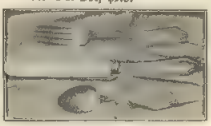
Reproduction one-half size.



**SMALL CARVING SET**
One Set in Lined Box
11059 Per Set, $9.57



**BUTTER KNIFE AND SUGAR SHELL**
One Set in Lined Box
11060 Plain, Per Set, $3.47
11061 With Gilt Sugar, " 4.10



**THREE PIECE CHILD SET**
One Set in Lined Box
11062 Hollow Handle Knife, Per Set, $5.57
11063 Flat Nickel Knife, " " 3.82

Reproduction one-fourth size.

**LARGE CARVING SET**
11064 One Set in Lined Box. Per Set, $20.87

GEORGIAN DESIGN

Community Silver must not be advertised or sold below the established re-sale prices. These prices may be obtained from us.

## HOLIDAY BOXES

Covered with holly design paper in colors.

| | Doz |
|---|---|
| No. K805—Pocket knife; size 3⅝x1x⅝ inches, provided with jeweler's cotton; weight per dozen 8 oz. .. | $ 0 50 |
| No. K806—Razor; size 6⅞x1⅜x⅝ inches weight per dozen 16 oz .. | 50 |
| No. K807—Scissors; size 6½x3x½ inches; provided with greeting cards; weight per dozen 24 oz | 1 00 |
| No. K808—Shear; size 9⅝x3⅜x¾ inches provided with greeting cards, weight per dozen 36 oz. .. | 1 20 |

## POCKET KNIFE PURSES

No. K05P

Made of soft russet leather; smooth finish; silk stitched edges; nickel glove fastener

| Nos. | K01P | K02P | K03P | K04P | K05P |
|---|---|---|---|---|---|
| Length inches | 2½ | 3 | 3⅝ | 3⅞ | 4⅛ |
| Gross in box | 1 | 2 | 3 | 3 | 2 |
| Weight per dozen, oz. | 1½ | 2 | 2½ | 2¾ | 3 |
| Dozen | $1.00 | 1.00 | 1.00 | 1.00 | 1 00 |

## RAZOR POCKETS

| | Doz. |
|---|---|
| No. K214—Genuine buckskin; silk stitched edges; open end; will take any size razor weight per dozen 1½ oz... | $ 1.50 |

## WYETH SHIELD BRAND RAZORS

FULLY WARRANTED

All razors bearing the WYETH SHIELD BRAND are hand forged from the highest grade of selected English Wardlow razor steel, and are hardened and tempered by the latest and most improved methods, which insure a keen, easy cutting and lasting edge, hand honed and ready for immediate use. These razors are well known for their excellent finish and neat appearance, and are absolutely guaranteed in every respect.

Nos. KR120 to KR122

Wyeth Optime; highly polished and etched; hollow ground blade; file tang; plain black rubber handle.

| Nos. | KR120 | KR121 | KR122 | KR123 | KR124 | KR125 |
|---|---|---|---|---|---|---|
| Width blade, inches.. | ⅛ | ⅜ | ¾ | ⅛ | ⅜ | ¾ |
| Style point | sq. | sq. | sq. | rd. | rd. | rd. |
| Weight per dozen, oz. | 24 | 30 | 36 | 24 | 30 | 36 |
| Dozen | $18 00 | 18.00 | 18.00 | 18 00 | 18.00 | 18.00 |

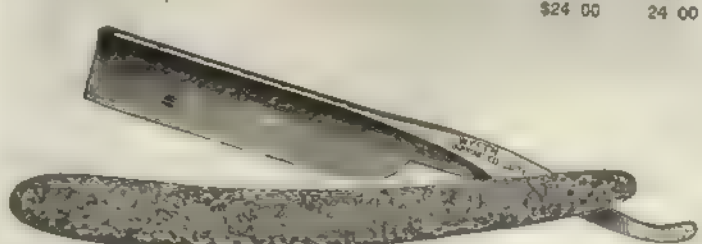
Highly polished and etched, hollow ground blade; file tang; plain black rubber handle.

| Nos. | KR160 | KR161 | KR162 |
|---|---|---|---|
| Width blade, inches | ⅛ | ⅜ | ¾ |
| Style point | sq. | sq. | sq. |
| Weight per dozen, oz. | 24 | 30 | 36 |
| Dozen | $24.00 | 24.00 | 24.00 |

No. KR176

Full Crocussed and gold etched; hollow ground blade; file tang; mottled yellow celluloid handle.

| Nos. | KR176 | KR177 |
|---|---|---|
| Width blade, inches | ⅛ | ⅛ |
| Style point | sq. | rd |
| Weight per dozen, oz | 22 | 28 |
| Dozen | $24 00 | 24 00 |



Little Shaver; full Crocussed and etched; ⅝-inch square point, hollow ground blade; file tang; mottled green celluloid handle.

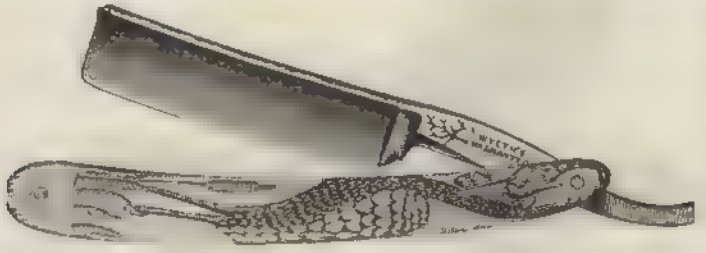
| | Doz. |
|---|---|
| No. KR180—Weight per dozen 30 oz. | $ 24.00 |

All above packed, one in case; one-half dozen in cardboard box.

# WYETH SHIELD BRAND RAZORS

## FULLY WARRANTED

All razors bearing the WYETH SHIELD BRAND are hand forged from the highest grade of selected English Wardlow razor steel, and are hardened and tempered by the latest and most improved methods, which insure a keen, easy cutting and lasting edge, hand honed and ready for immediate use. These razors are well known for their excellent finish and neat appearance, and are absolutely guaranteed in every respect.



Half Crocussed; ⅝-inch square point; hollow ground blade; plain tang; fancy grain celluloid handle.

| | Doz. |
|---|---|
| No. KR251—Weight per dozen 30 oz. | $27 00 |

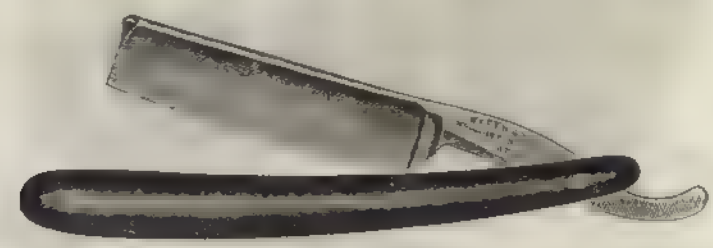
No. KR228

Imperial; full Crocussed and gold etched; hollow ground blade; smooth tang; fancy grain celluloid handle.

| Nos. | KR228 | KR229 |
|---|---|---|
| Width blade, inches | ⅝ | ⅝ |
| Style point | rd. | sq. |
| Weight per dozen, oz. | 30 | 30 |
| Dozen | $30 00 | 30.00 |

Highly polished; ⅝-inch square point; hollow ground blade, smooth tang; fancy black celluloid handle.

| | Doz. |
|---|---|
| No. KR231—Weight per dozen 30 oz. | $30.00 |



Our Special Grinding; highly polished and etched; hollow ground blade file tang; plain black rubber handle.

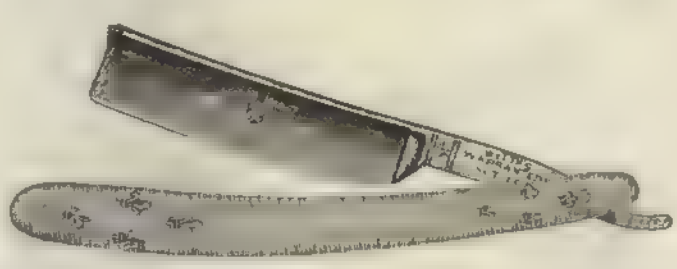
| Nos. | KR234 | KR235 | KR237 | KR238 | KR239 |
|---|---|---|---|---|---|
| Width blade, inches | ½ | ⅝ | ½ | ⅝ | ¾ |
| Style point | sq. | sq. | rd. | rd. | rd. |
| Weight per dozen, oz. | 24 | 30 | 24 | 30 | 36 |
| Dozen | $32 00 | 32 00 | 32 00 | 32 00 | 32.00 |

St. Regis; half Crocussed and gold etched; ⅝-inch round point; hollow ground blade; plain tang; plain black rubber handle.

| | Doz. |
|---|---|
| No. KR261—Weight per dozen 30 oz. | $32 00 |

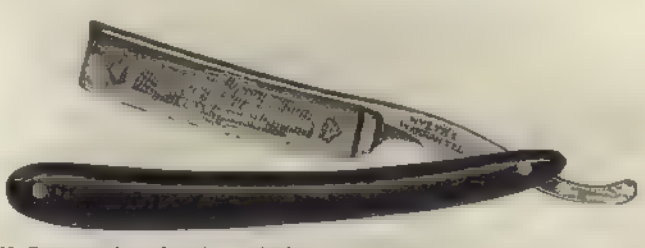
Our Special Grinding; highly polished and etched; hollow ground blade; file tang; plain black rubber handle, fitted with oiled felt pads, which prevent rust and protect blades.

| Nos. | KR234FP | KR235FP |
|---|---|---|
| Width blade, inches | ½ | ⅝ |
| Style point | sq. | sq. |
| Weight per dozen, oz. | 26 | 32 |
| Dozen | $36.00 | 36 00 |



Half Crocussed and gold etched; hollow ground blade; plain tang; fancy grain celluloid handle.

| Nos. | KR246 | KR247 |
|---|---|---|
| Width blade, inches | ½ | ⅝ |
| Style blade | sq. | sq. |
| Weight per dozen, oz. | 24 | 30 |
| Dozen | $32.00 | 32 00 |



Half Crocussed and gold etched; ⅝-inch square point; extra hollow ground blade; file tang; plain black rubber handle.

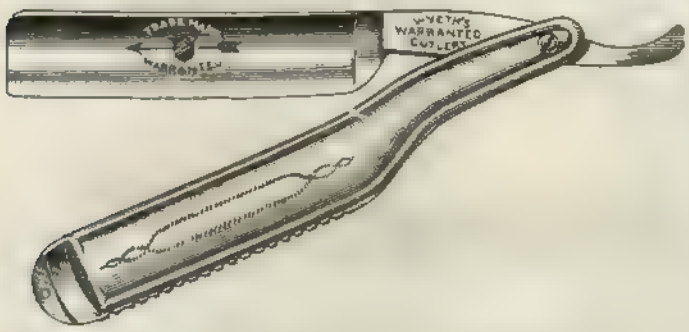
| | Doz. |
|---|---|
| No. KR265—Weight per dozen 30 oz. | $36 00 |

All above packed, one in case; one-half dozen in cardboard box.

# WYETH SHIELD BRAND RAZORS

**FULLY WARRANTED**

All razors bearing the WYETH SHIELD BRAND are hand forged from the highest grade of selected English Wardlow razor steel, and are hardened and tempered by the latest and most improved methods, which insure a keen, easy cutting and lasting edge. Hand honed and ready for immediate use. These razors are well known for their excellent finish and neat appearance, and are absolutely guaranteed in every respect.



**Ern Junior;** full Crocussed and etched; hollow ground; German silver, automatic locking handle; can be sterilized.

Doz.

**No. KR300**—⅝ inch square point; weight per dozen 36 oz.....$40 00

**No. KR270**

**Silver King;** full Crocussed and silver etched; hollow ground blade; file tang; fancy grain celluloid handle, German silver inlaid.

| Nos. | KR270 | KR271 |
|---|---|---|
| Width blade, inches | ⅝ | ⅝ |
| Style blade | sq. | rd |
| Weight per dozen, oz. | 30 | 30 |
| Dozen | $42.00 | 42.00 |

Half Crocussed and gold etched; ⅝-inch round point; hollow ground blade; black rubber tang; the shank of blade runs entirely to end of rubber tang preventing breakage; fancy black rubber handle.

Doz.

**No. KR280**—Weight per dozen 32 oz.....$42.00

Half Crocussed; gold etched; ⅝-inch square point; hollow ground blade; silver celluloid scale tang; the shank of blade runs entirely to end of tang, preventing cracking or breaking; silver celluloid handles.

Doz.

**No. KR295**—Weight per dozen 30 oz.....$42.00

All above packed, one in case; one-half dozen in cardboard box.

Half Crocussed; gold etched; ⅝-inch square point, hollow ground blade; pearl scale tang; the shank of blade runs entirely to end of pearl tang, preventing cracking or breaking; plain black rubber handle.

Doz.

**No. KR290**—Weight per dozen 30 oz.....$48.00

**Our Best;** full Crocussed and gold etched; hollow ground blade; file tang; fancy grain celluloid handle, German silver inlaid.

| Nos. | KR284 | KR285 |
|---|---|---|
| Width blade, inches | ½ | ⅝ |
| Style blade | sq. | sq |
| Weight per dozen, oz. | 24 | 30 |
| Dozen | $48 00 | 48 00 |

All above packed, one in case; one-half dozen in cardboard box

No. KR400A

**ASSORTMENTS**

Consists of one each Nos. KR125, KR239, KR247, KR160, KR162 and KR231 razors; put up in velvet lined, enameled leather case, with button clasp.

Asst.

**No. KR400A**—Weight 14 oz. .....$ 8.00

Consists of one each Nos. KR235, KR176, KR247, KR161, KR251 and KR290 razors; put up in velvet lined, enameled leather case, with button clasp.

Asst.

**No. KR1200A**—Weight 14 oz. .....$12.00

# RAZORS

## WYETH SHIELD BRAND

### FULLY WARRANTED

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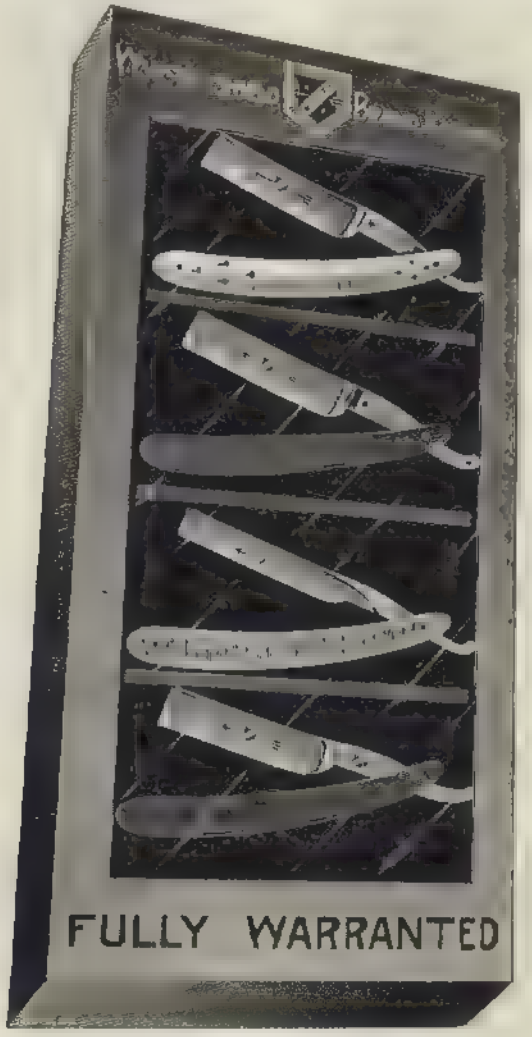



### ASSORTMENTS

Consists of two each Nos. KR125, KR239, KR247, KR160, KR162 and KR231 razors; put up in velvet lined, celluloid front display box.

Asst

No. KR800A—Weight 3¼ lbs. .....$16 00

No. KR151

### CORN RAZORS

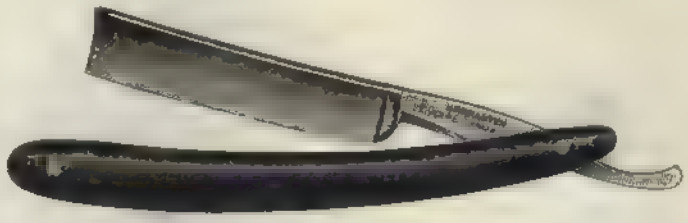
Full Crocussed and etched; round point; concave blade; 1⅛-inch cutting edge; full length opened 5⅛ inches

Doz.

No. KR150—Black rubber handles, weight per dozen 15 oz . $12 00
No. KR151 White grain celluloid handles, weight per dozen 15 oz. ..... 12 00
No. KR152—Pearl handles; weight per dozen 16 oz. 28.00

## ELECTRIC CITY

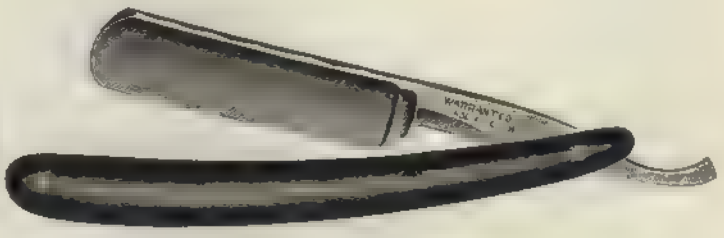
Made of good quality selected razor steel, correctly hardened and tempered and honed ready for immediate use, neat in appearance and nicely finished.



Highly polished; ⅝-inch square point; hollow ground blade; file tang, plain black rubber handle.

Doz.

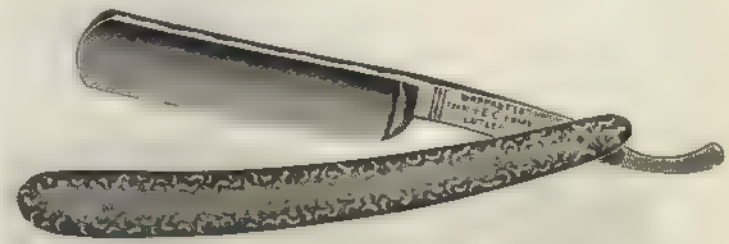
No. KE20—Weight per dozen 30 oz.....$ 9.00



Highly polished; ⅝-inch round point; hollow ground blade, file tang, plain black rubber handle.

Doz

No. KE25—Weight per dozen 30 oz.....$11.00



Highly polished; ⅝-inch round point; hollow ground blade; file tang, celluloid handles, assorted colors

Doz.

No. KE35—Weight per dozen 30 oz.....$13.00

Highly polished; ⅝-inch square point; hollow ground blade, file tang; plain black rubber handle.

Doz

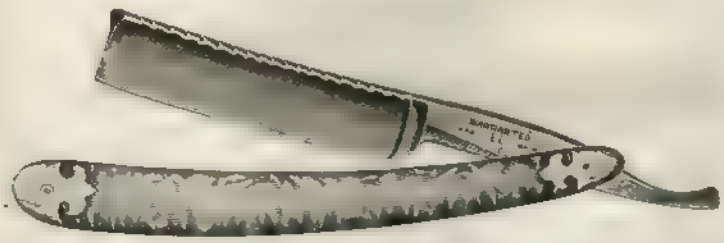
No. KE30—Weight per dozen 30 oz ... .. .. . $15.00

All above packed, one in case; one-half dozen in cardboard box.

# RAZORS

## ELECTRIC CITY

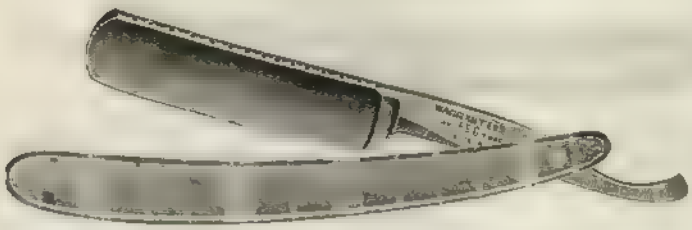
Made of good quality selected razor steel, correctly hardened and tempered and honed ready for immediate use; neat in appearance and nicely finished



Full Crocussed; ⅝-inch square point; hollow ground blade; file tang; celluloid handles; assorted colors; German silver tips.

| | Doz. |
|---|---|
| No. KE40—Weight per dozen 32 oz. | $15 00 |

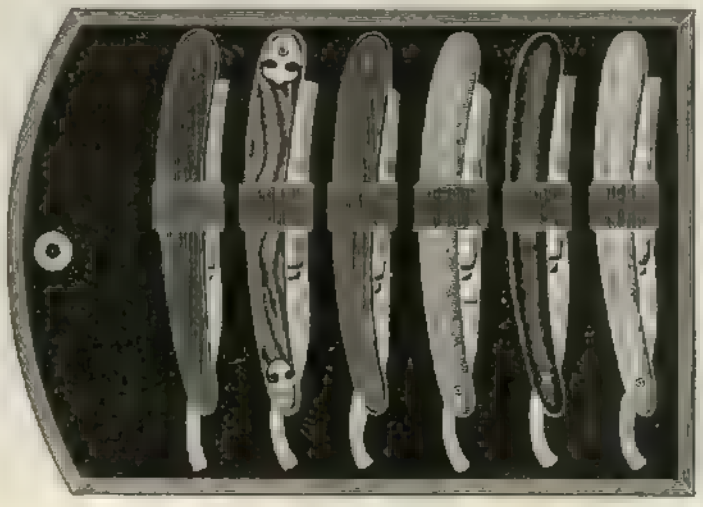
Packed, one in case; one-half dozen in package



Full Crocussed; ⅝-inch round point; hollow ground blade; file tang, fancy celluloid handles; assorted colors

| | Doz. |
|---|---|
| No. KE45—Weight per dozen 30 oz | $16.00 |

Packed, one in case; one-half dozen in package

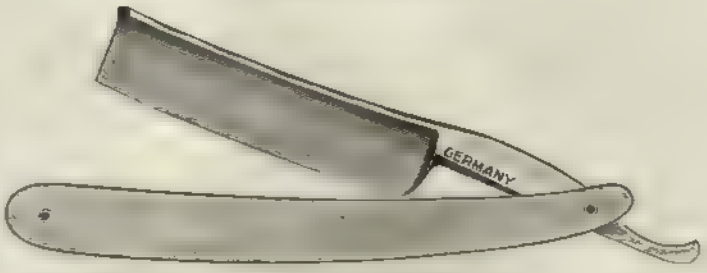


### ASSORTMENTS

Consists of two each Nos. KE20 and KE35, one each, Nos. KE30 and KE40 razors; put up in velvet lined enameled leather case, with button clasp.

| | Asst. |
|---|---|
| No. KR300A—Weight 14 oz. | $ 6.00 |

## MISCELLANEOUS




Highly polished steel, hollow ground blade; ⅝-inch square point, file tang, plain white celluloid handle

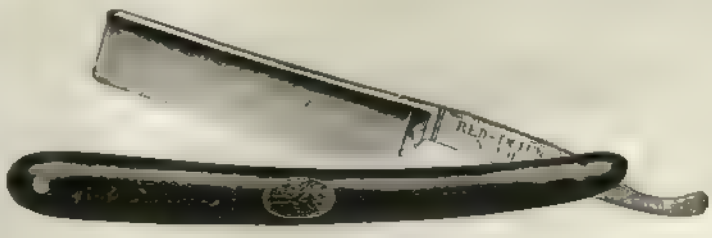
| | Doz. |
|---|---|
| No. K494—Weight per dozen 26 oz. | $ 7 00 |

Manganese steel; square point; hollow ground blade; gun metal finish back and tang; white bone handle.

| Nos. | K563 | K564 |
|---|---|---|
| Width blade, inches | ½ | ⅝ |
| Weight per dozen, oz. | 24 | 28 |
| Dozen | $33 00 | 33 00 |

Manganese steel; square point; hollow ground blade; gun metal finish back and tang; celluloid handle, German silver tips

| Nos. | K565 | K566 |
|---|---|---|
| Width blade, inches | ½ | ⅝ |
| Weight per dozen, oz | 24 | 28 |
| Dozen | $36.00 | 36 00 |



Red Injun; full Hamburg ground glazed blade; Crocussed tang and back; plain black rubber handle

| Nos. | K100BS | K101BS | K100BR | K101BR |
|---|---|---|---|---|
| Width blade, inches | ½ | ⅝ | ½ | ⅝ |
| Style blade | sq. | sq. | rd. | rd |
| Weight per dozen, oz. | 32 | 32 | 32 | 32 |
| Dozen | $36 00 | 36 00 | 36 00 | 36 00 |

All above packed, one in case; one-half dozen in cardboard box.

SPOONS, FORKS AND OTHER PIECES STAMPED **1847 ROGERS BROS.** ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

# It is Reputation that Sells Silverware

For over sixty-five years 1847 ROGERS BROS. "*Silver Plate that Wears*" has been the recognized leader.

Quality, backed by persistent advertising, insures ready sales and — what is better in the long run — satisfied customers. They know "The 1847 Girl" and the ware she advertises.

## The Makers' Guarantee

is back of each Spoon, Fork and Knife that they produce, and is as follows:

Every piece of Silver Ware bearing the
TRADE MARK
**1847 ROGERS BROS.**
is guaranteed by the makers to
give perfect satisfaction in every respect
We will replace without charge any
of the goods which with fair treatment do not give satisfactory service.
International Silver Co

Write to us for 1847 ROGERS BROS. advertising and display helps

SPOONS, FORKS AND OTHER PIECES STAMPED **1847 ROGERS BROS.** ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

*"Silver Plate that Wears"*

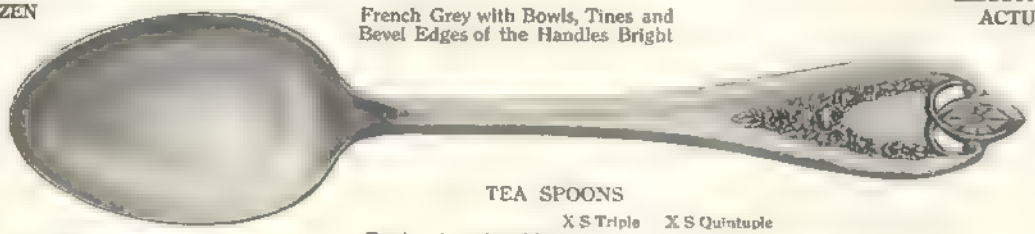
# OLD COLONY PATTERN

The highest achievement attained in silver plate. Note the pierced handle and the sterling effect of design, rich in character rather than ornamentation, and possessing individuality, without the loss of simplicity and purity of outline.

PRICES PER DOZEN

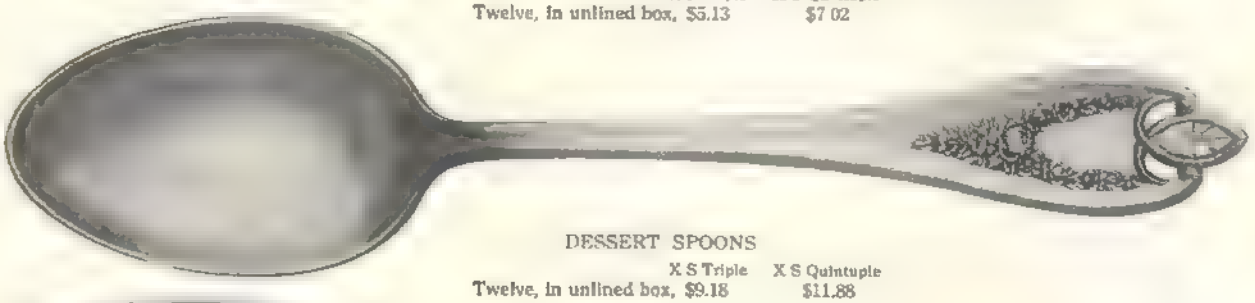
French Grey with Bowls, Tines and Bevel Edges of the Handles Bright

ILLUSTRATIONS ACTUAL SIZE



TEA SPOONS

| | X S Triple | X S Quintuple |
|---|---|---|
| Twelve, in unlined box, | $5.13 | $7 02 |



DESSERT SPOONS

| | X S Triple | X S Quintuple |
|---|---|---|
| Twelve, in unlined box, | $9.18 | $11.88 |

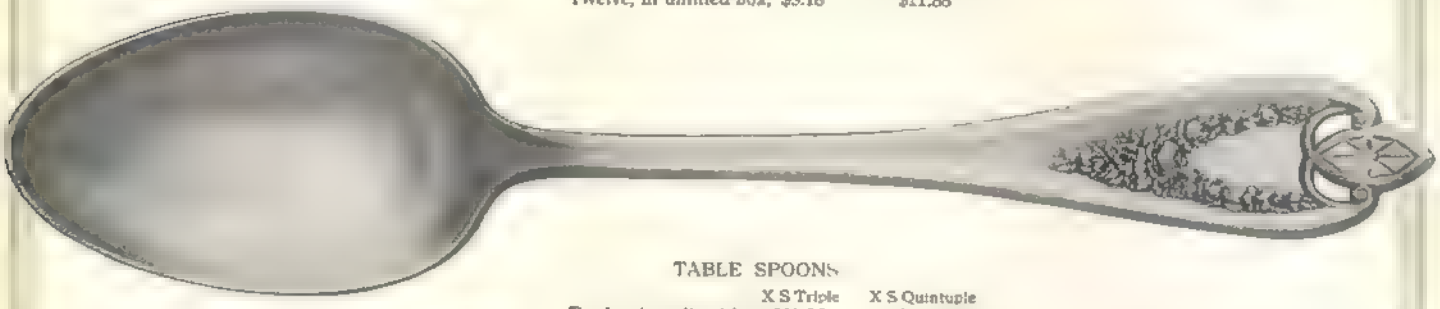
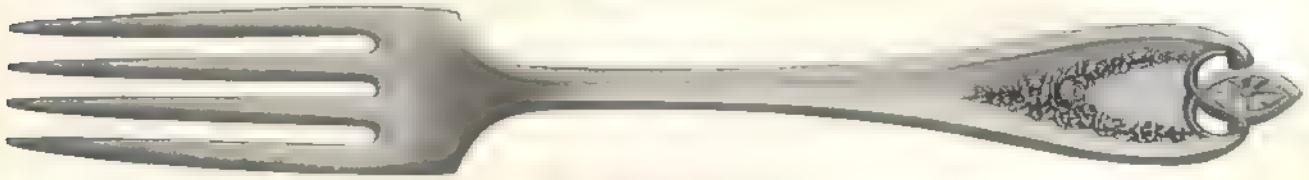


TABLE SPOONS

| | X S Triple | X S Quintuple |
|---|---|---|
| Twelve, in unlined box, | $10.26 | $14.04 |



FLAT HANDLE FORKS

| | X S Triple | X S Quintuple |
|---|---|---|
| Dessert Forks, twelve in unlined box, | $9.18 | $11 88 |
| Medium Forks, twelve in unlined box, | $10.26 | $14 04 |

HOLLOW HANDLE KNIVES AND FORKS

| | | | |
|---|---|---|---|
| Medium Knives, six in flannel roll | per doz., $17.28 | Medium Forks, six in flannel roll, | per doz., $17 28 |
| Dessert Knives, six in flannel roll, | " " 16.20 | Dessert Forks, six in flannel roll, | " " 16 20 |

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SPOONS, FORKS AND OTHER PIECES STAMPED **1847 ROGERS BROS.** ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

*"Silver Plate that Wears"*

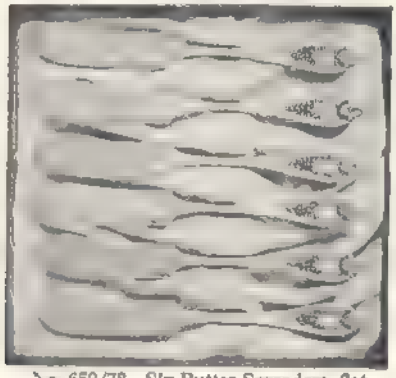
# OLD COLONY PATTERN

Illustrations One-third Scale

No. 6[illegible]78 Butter Knife, bent handle, each, $1.08
With gilt blade, $1.43

No. 751/78 Cheese Server, hollow handle
Each, $2.08

No. 60[illegible]78 Sugar Shell, each, $0.95
With gilt bowl, $1.30



No. 652/78 Six Butter Spreaders, flat handle, per set, $4.59
No. 719/78 Six Butter Spreaders, hollow handle, per set, $6.48

No. 705/78 Sugar Tongs and Six Coffee Spoons, per set, $4.59
No. 624/78 Six Coffee Spoons, without Tongs, per set, $2.54; gilt bowls, $4.16
Sugar Tongs only, each, $1.62

No. 604/78 Butter Knife and Sugar Shell
Per set, $1.98; with gilt bowl, $2.34

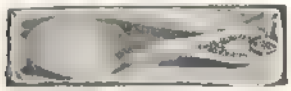
No. 622/78 Six Oyster Forks
Per set, $3.40

No. 620/78 Six Tea Spoons, per set, $2.84

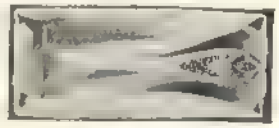
No. 681/78 Pickle Fork, long, or Olive Fork, each, $1.22

No. 662/78 Cold Meat Fork, each, $1.35
With gilt tines, $1.89

No. 768/78 Baby Fork,
short handle, each, $0.68

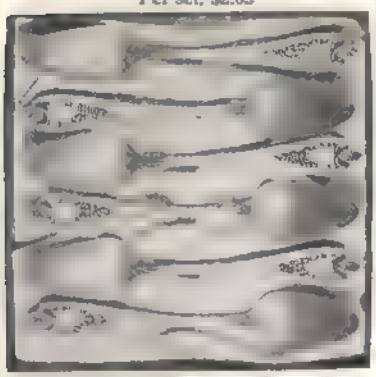


No. 76[illegible]78 Baby Spoon, short handle, each, $0.68
No. 769/78 Short Handle Baby Spoon and Fork, per set, $1.35
No. 770/78 Short Handle Baby Spoon and Fork and Food Pusher
Per set, $2.03



No. 726/78 Food Pusher
Each, $0.68
No. 727/78 Baby Spoon, bent handle and Food Pusher, per set, $1.35

No. 615/78 Berry Spoon, each, $2.16, with gilt bowl, $2.97



No. 647/78 Six Orange or Grape Fruit Spoons, per set, $3.24

No. 702/78 Butter Knife, Sugar Shell and Cream Ladle, per set, $3.51

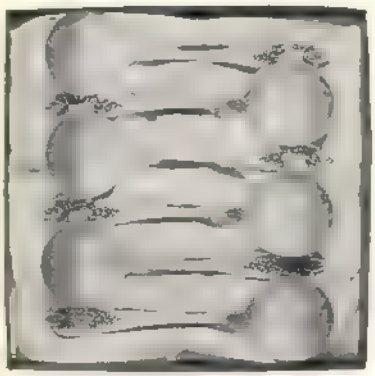
No. 762/78 Six Egg Spoons
Per set, $2.84

SPOONS, FORKS AND OTHER PIECES STAMPED **1847 ROGERS BROS.** ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

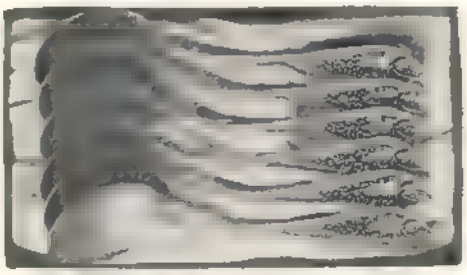
*"Silver Plate that Wears"*

# OLD COLONY PATTERN

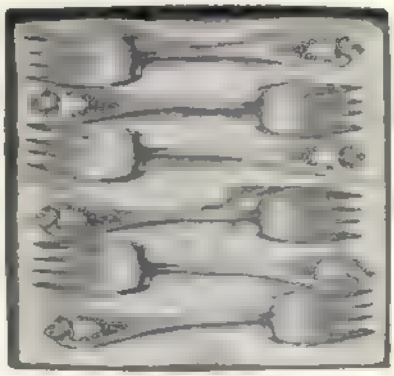
Illustrations One-third Scale



No. 720/78 Six Bouillon Spoons
Per set, $4.86



No. 713/78 Six Soup Spoons, per set, $5.67



No. 717/78 Six Individual Salad Forks
Per set, $5.13

No. 729/78 Cake Fork, each, $1.35

No. 784/78 Sandwich Fork, each, $1.35

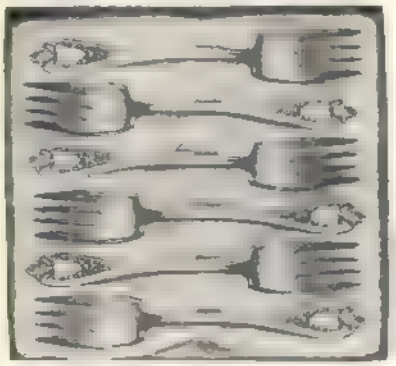
No. 754/78 Butter Pick, each, $1.04

No. 116/78 Child's Set, 3 pieces, per set, $2.16
No. 593/78 Child's Set, 3 pieces, with Nickel Silver, Silver Soldered, Hollow Handle Knife, per set, $2.84
No. 721/78 School Set Dessert Knife hollow handle, Dessert Fork and Spoon, Tea Spoon and Napkin Ring, per set, $4.41

No. 716/78 Preserve or Jelly Spoon, each, $1.62

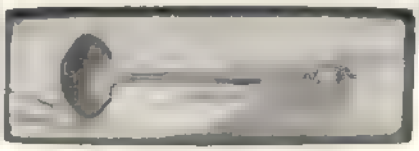
No. 727/78 Pickle Fork, short, each, $0.95

No. 703/78 Child's Set, 3 pieces, and Napkin Ring, with Nickel Silver, Silver Soldered, Hollow Handle Knife, per set, $3.51



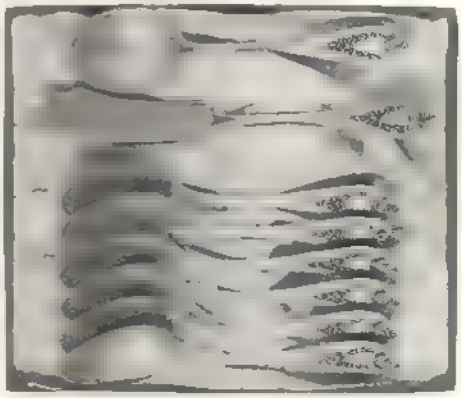
No. 752/78 Six Individual Pastry Forks
Per set, $5.13

No. 715/78 Beef Fork, each, $1.13



No. 760/78 Mayonnaise Ladle, each, $1.08
With gilt bowl, $1.43

Iced Tea Spoon
Per doz. $7.02



No. 710/78 Sugar Shell, Butter Knife and Six Tea Spoons, per set, $4.86

No. 612/78 Oyster Ladle (illustrated), each, $3.51; gilt bowl, $4.41
No. 610/78 Cream Ladle, each, $1.22; gilt bowl, $1.76
No. 611/78 Gravy Ladle, each, $1.62; gilt bowl, $2.48
No. 613/78 Medium Ladle each, $4.32; gilt [illegible] $5.40

c-6-13

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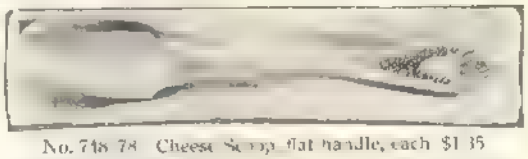
SPOONS, FORKS AND OTHER PIECES STAMPED **1847 ROGERS BROS.** ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

*"Silver Plate that Wears"*

# OLD COLONY PATTERN

Illustrations One-third Scale

No. 621/78 Pie Server, hollow handle, each, $2.70



No. 748/78 Cheese Scoop, flat handle, each $1.35

No. 724/78 Olive Spoon, each, $6.81

No. 706/78 Berry Spoon and Six Berry Forks, per set, $5.94; with gilt bowl and tines, $8.37

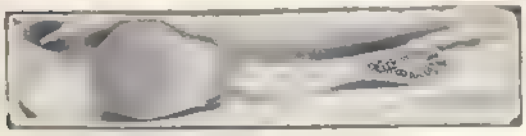
No. 619/78 Pie Knife, each, $2.70

No. 758/78 Berry Spoon and Cold Meat Fork
Per set $4.05

No. 701/78 Cold Meat Fork and Gravy Ladle, per set, $3.51; with gilt bowl and tines, $4.86

Punch Ladle, Flat Handle
Each, $6.48; gilt bowl, $8.10
In lined box, $0.54 extra

No. 714/78 Cucumber or Tomato Server, each, $2.16



No. 86/78 Jelly Knife, each $1.08

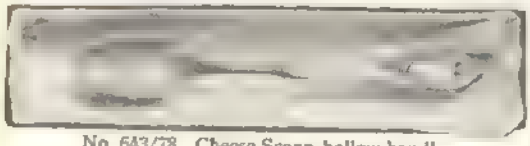
No. 639/78 Salad Spoon and Fork, per set, $4.86

No. 747/78 Ice Cream Server and Six Ice Cream Forks
Per set $7.29
No. 708/78 Ice Cream Server and Six Ice Cream Spoons
Per set $6.48

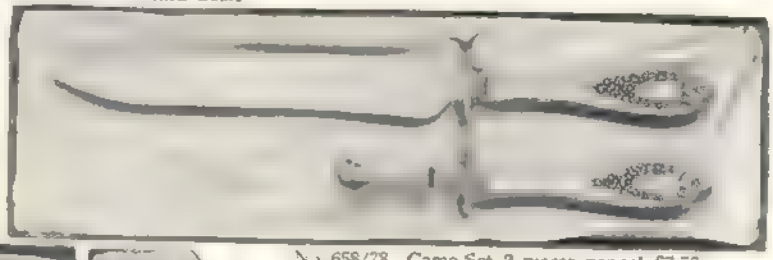
*"Silver Plate that Wears"*

# OLD COLONY PATTERN

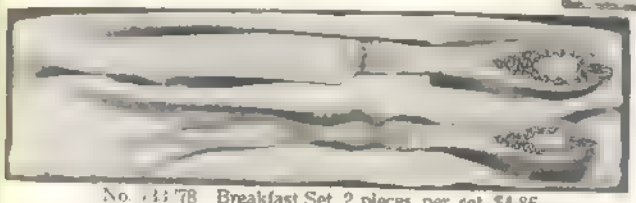
Illustrations One-third Scale



No. 643/78 Cheese Scoop, hollow handle
Each, $2.16

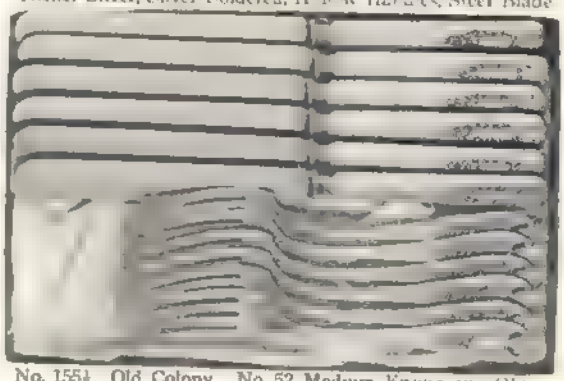


No. 658/78 Game Set, 2 pieces, per set, $7.56
Nickel Silver, Silver Soldered, Hollow Handles, Steel Blade

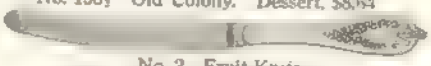


No. 733/78 Breakfast Set, 2 pieces, per set, $4.86
No. 734/78 Breakfast Set, 3 pieces, per set, 7.02
Nickel Silver, Silver Soldered, Hollow Handles, Steel Blades

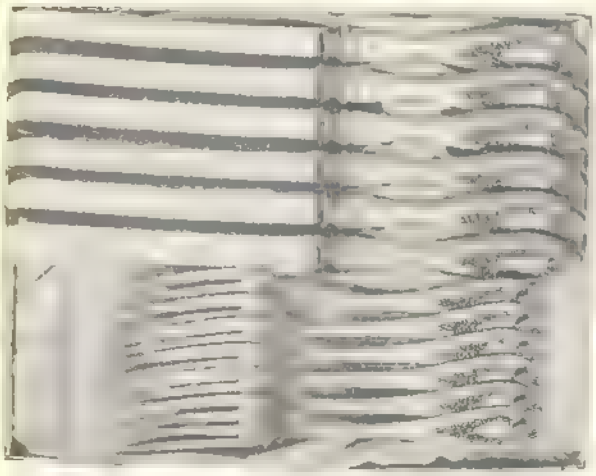
No. 732/78 Bread Knife, hollow handle, each, $2.16



No. 1554 Old Colony. No. 52 Medium Knives and Old Colony Flat Handle Medium Forks, $[illegible]
No. 1564 Old Colony. Dessert, $8.64

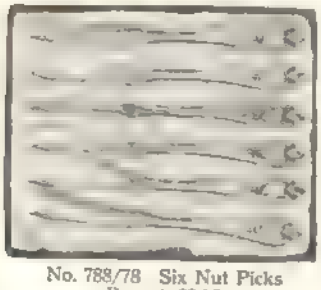


No. 2 Fruit Knife

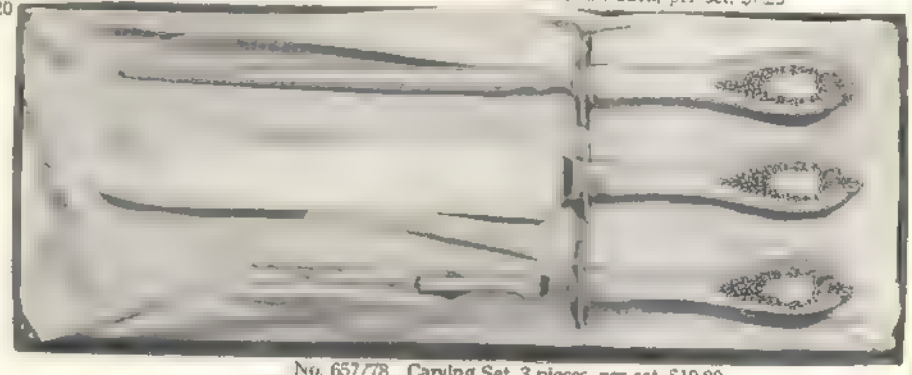


No. 1584 Old Colony. Six Hollow Handle Medium Knives and Flat Handle Medium Forks (illustrated), per set, $13.77
No. 1594 Old Colony. Dessert, per set, $12.69
No. 1604 Old Colony. Six Hollow Handle Medium Knives and Forks, per set, $11.26
No. 161 Old Colony. Six Hollow Handle Medium Knives and Dessert Forks, per set, $10.74
No. 162 Old Colony. Six Hollow Handle Dessert Knives and Forks, per set, $16.20

No. 738/78 Six Hollow Handle No. 1 Fruit Knives, per set, $6.48
No. 650/78 Six Hollow Handle No. 2 Fruit Knives, per set, $6.48
No. 739/78 Six Hollow Handle No. 2 Fruit Knives, saw back, per set, $7.29



No. 788/78 Six Nut Picks
Per set, $2.16



No. 657/78 Carving Set, 3 pieces, per set, $10.80
Nickel Silver, Silver Soldered, Hollow Handles, Steel Blade

# BICYCLES

## WYETH SHIELD BRAND

The WYETH line of bicycles comprises ten models, each made of the highest grade of material, and representing the latest and most approved designs. They differ principally in finish and equipment and are absolutely guaranteed in every respect. All the frames are made of 18-gauge Shelby seamless tubing with one-piece crank hangers. New Departure hubs turned from bar steel are used in each of the models. Models 5 and 8 have a plain drop forged fork crown. Model 6 has a three-plate crown of improved design with fancy front forks. Our line of Juvenules is of the same high grade as the larger wheels.

MODEL 6

### DETAILS OF CONSTRUCTION

**Frame**—22-inch regular; option of 20-inch or 24-inch; main tubes 1-inch; head 1½-inch; upper rear fork ⅝-inch oval pattern; lower rear fork ¾-inch, slightly formed; made from the finest quality Shelby seamless 18-gauge steel tubing; flush joints, fishmouth reinforcements, which eliminate vibration and buckled joints; in addition to this reinforcement the frame has heavy steel pins connecting all reinforcements, which make it absolutely unbreakable.

**Fork**—This important part has forged steel three plate crown; ⅞-inch ribbed fork sides, nicely tapered, and is reinforced down the entire length of the fork sides by an extra ribbed reinforcement, which insures strength and beauty.

**Finish**—Dark blue and silver gray enameled, with gold stripes; dark blue rims, with silver gray center and gold striping; bright parts finely nickel plated; each wheel is given five coats of enamel, and the final coat is hand polished.

**Crank Hanger**—Guaranteed not to bend or break; one piece, fitted with diamond pattern, 7-inch cranks; made from high carbon spring steel; the cones and cups on this hanger are fitted so that it is impossible for dirt to get in. All the bearings are packed in vaseline and will remain in good condition for a year or more; can be easily taken apart and put together by anyone.

**Hubs**—New Departure, Bell pattern, turned from solid bar of steel; fitted with the highest grade of cups, cones and bearings.

**Coaster Brake**—New Departure will be fitted on wheels as listed below.

**Chain**—⅛-inch genuine English roller chain; highest quality.

**Gear**—81, 9-tooth rear and 26-tooth front sprocket.

**Seat Post**—⅞-inch; forward L, with pinch bolt binder.

**Wheels**—28-inch; with swaged spokes, 32 front and 36 rear.

**Mud Guards**—Blue and gray, or orange, to match; furnished to order only; see below.

**Equipment No. SB**—Illustrated on page 1305.

| | Each |
|---|---|
| **No. S6PNS** Fitted with No. SPNS Peerless non-slip tires | $38 50 |
| **No. S6CPNS**—Fitted with New Departure coaster brake and No. SPNS Peerless non-slip tires | 45 00 |
| **No. S6NS**—Fitted with No. SNS Electric City Non-Skid tires | 39 50 |
| **No. S6CNS**—Fitted with New Departure Coaster brake and No. SNS Electric City Non Skid tires | 46.00 |
| **No. S6WC** Fitted with No. SWC Wyco Thick Tread tires | 40 50 |
| **No. S6CWC** Fitted with New Departure Coaster brake and No. SWC Wyco Thick Tread tires | 47 00 |
| **No. S6DT** Fitted with No. SDT M & W make double tube tires | 41.70 |
| **No. S6CDT**—Fitted with New Departure coaster brake and No. SDT M & W make double tube tires | $48 20 |
| **No. S6WS**—Fitted with No. SWS Wyeth Shield tread tires | 42.50 |
| **No. S6CWS** Fitted with New Departure coaster brake and No. SWS Wyeth Shield tread tires | 49.90 |
| **No. S6MB**—Fitted with No. SMB Vitalic tires | 44.50 |
| **No. S6CMB** Fitted with New Departure coaster brake and No. SMB Vitalic tires | 51.00 |
| **No. S6VC** Fitted with No. S80 Vacuum cup tires | 45.50 |
| **No. S6CVC**—Fitted with New Departure coaster brake and No. S80 Vacuum cup tires | $52 00 |
| **No. S6GJ**—Fitted with No. SGJ genuine G. & J. make detacheable tires | 46 50 |
| **No. S6CGJ**—Fitted with New Departure coaster brake and No. SGJ genuine G. & J. make detachable tires | 53 00 |
| **No. S6VCC**—Fitted with No. SVCC Vacuum Cup Clincher casings and Wyeth endless tubes | 47 90 |
| **No. S6CVCC**—Fitted with New Departure coaster brake and No. SVCC Vacuum Cup Clincher casings and Wyeth endless tubes | 54.40 |
| **Mud Guards** For front and rear wheels, extra | 2.00 |

MODEL 6Y

Frame and rims enameled in solid orange color, with double black hair line stripes; otherwise same as Model 6, when ordering this color specify Model 6Y orange finish; prices same as above.

Packed, one in crate; weight crated, 40 lbs.

For change of equipment see page 1305. To arrive at the price of special equipment deduct the price of the regular equipment on the wheel and add the price of the equipment wanted.

# BICYCLES

## WYETH SHIELD BRAND

The WYETH line of bicycles comprises ten models, each made of the highest grade of material and representing the latest and most approved designs. They differ principally in finish and equipment and are absolutely guaranteed in every respect. All the frames are made of 18 gauge Shelby seamless tubing with one piece crank hangers. New Departure hubs turned from bar steel are used in each of the models. Models 5 and 8 have a plain drop forged fork crown. Model 6 has a three-plate crown of improved design with fancy front forks. Our line of Juveniles is of the same high grade as the larger wheels.

### MODEL 8

### DETAILS OF CONSTRUCTION

**Frame**—22-inch regular, option of 20 inch or 24-inch; double bar frame, main tubes 1-inch head 1⅛-inch, upper rear fork ⅝-inch oval pattern, lower rear fork ¾-inch slightly formed, made from the finest quality Shelby seamless 18 gauge steel tubing; flush joints, fishmouth reinforcements, which eliminate vibration and buckled joints, in addition to this reinforcement the frame has heavy steel pins connecting all reinforcements, which make it absolutely unbreakable.

**Fork**—This important part has special drop forged nickel plated crown, ⅞-inch heavily reinforced fork sides, nicely tapered.

**Finish**—Dark blue enameled frame with aluminum head and gold stripes, dark blue rims with silver and gold stripes; bright parts finely nickel plated.

**Crank Hanger**—Guaranteed not to bend or break; one piece, fitted with diamond pattern 7 inch cranks, sprockets milled true to pitch, made from high carbon spring steel, the cones and cups of this hanger are fitted so that it is impossible for dirt to get in, all the bearings are packed in vaseline and will remain in good condition for a year or more

**Hubs**—New Departure; finely finished turned from solid bar of steel, fitted with the highest grade of cups, cones and bearings.

**Coaster Brake** New Departure will be fitted on wheels as listed below

**Chain** Genuine English roller highest quality.

**Gear**—81, 9-tooth rear; 26-tooth front sprocket.

**Seat Post**—⅞-inch; forward L, with pinch bolt binder.

**Wheels**—28-inch; with swaged spokes, 32 front and 36 rear

**Equipment No. S8** Illustrated on page 1305.

| | Each |
|---|---|
| **No. S8PNS** Fitted with No. SPNS Peerless Non-Slip tires | $38.50 |
| **No. S8CPNS**—Fitted with New Departure Coaster brake and No SPNS Peerless Non-Skid tires | 45.00 |
| **No. S8NS** Fitted with No SNS Electric City Non-Skid tires | 39.50 |
| **No. S8CNS** Fitted with New Departure Coaster brake and No. SNS Electric City Non-Skid tires | 46.00 |
| **No. S8WC**—Fitted with No. SWC Wyco Thick Tread tires | 40 50 |
| **No. S8CWC** Fitted with New Departure Coaster brake and No SWC Wyco Thick Tread tires | 47.00 |
| **No. S8DT**—Fitted with No. SDT M. & W. make double tube tires | $41.70 |
| **No. S8CDT**—Fitted with New Departure coaster brake and No. SDT M. & W. make double tube tires | 48 20 |
| **No. S8WS**—Fitted with No. SWS Wyeth Shield tread tires | 42 50 |
| **No. S8CWS**—Fitted with New Departure coaster brake and No. SWS Wyeth Shield tread tires | 49.00 |
| **No. S8MB**—Fitted with No SMB Vitalic tires | 44.50 |
| **No. S8CMB**—Fitted with New Departure coaster brake and No. SMB tires | 51.00 |
| **No. S8VC**—Fitted with No. S80 Vacuum Cup tires | $45.50 |
| **No. S8CVC**—Fitted with New Departure coaster brake and No S80 tires | 52 00 |
| **No. S8GJ**—Fitted with No. SGJ genuine G & J make detachable tires | 46 50 |
| **No. S8CGJ**—Fitted with New Departure coaster brake and No. SGJ tires | 53 00 |
| **No S8VCC**—Fitted with No SVCC Vacuum Cup Clincher casings and Wyeth endles tubes | 42 90 |
| **No. S8CVCC**—Fitted with New Departure coaster brake and No. SVCC casings and Wyeth endless tubes. | 54 40 |
| **Mud Guards** For front and rear wheels extra | 2 00 |

**Packed, one in crate; weight crated, 45 lbs.**

For change of equipment see page 1305. To arrive at the price of special equipment deduct the price of the regular equipment on the wheel and add the price of the equipment wanted.

# BICYCLES

## WYETH SHIELD BRAND

The WYETH line of bicycles comprises ten models, each made of the highest grade of material, and representing the latest and most approved designs. They differ principally in finish and equipment, and are absolutely guaranteed in every respect. All the frames are made of 18-gauge Shelby seamless tubing with one-piece crank hangers. New Departure hubs turned from bar steel are used in each of the models. Models 5 and 8 have a plain drop forged fork crown. Model 6 has a three-plate crown of improved design with fancy front forks. Our line of Juveniles is of the same high grade as the larger wheels

MODEL 5

### DETAILS OF CONSTRUCTION

**Frame**—22-inch regular, option of 20-inch or 24-inch; main tubes 1-inch; head 1⅛-inch; upper rear fork ⅝-inch, oval pattern; lower rear fork ¾-inch slightly formed; made from the finest quality Shelby seamless 18-gauge steel tubing; flush joints; fishmouth reinforcements; the frame has heavy steel pins connecting all reinforcements, which make it unbreakable.

**Fork**—This important part has forged steel, diamond pattern nickel plated crown; ⅞-inch heavily reinforced fork sides; seamless tubing, nicely tapered.

**Finish**—Olive green; single panel gold stripes; gold head; green rims with gold center stripes. All parts highly nickel plated.

**Crank Hanger**—Guaranteed not to bend or break; one piece; fitted with diamond pattern, 7-inch cranks; made from high carbon spring steel; sprockets milled true to pitch; the cones and cups on this hanger are fitted so that it is impossible for dirt to get in, all the bearings are packed in vaseline and will remain in good condition for a year or more; can be easily taken apart and put together by anyone.

**Hubs**—New Departure, Bell pattern; finely finished; turned from solid bar of steel; fitted with the highest grade of cups, cones and bearings.

**Coaster Brake**—New Departure will be fitted on wheels as listed below.

**Chain**—Genuine English roller; highest quality

**Gear**—81, 9 tooth rear and 26-tooth front sprocket.

**Wheels**—28-inch; with swaged spokes, 32 front and 36 rear.

**Equipment No. 8A** Illustrated on page 1305.

**Mud Guards**—Green to match; furnished to order only; see below.

| | Each |
|---|---|
| **No. S5PNS**—Fitted with No. SPNS Peerless Non Slip tires | $32 50 |
| **No. S5CPNS** Fitted with New Departure Coaster brake and No. SPNS Peerless Non Skid tires | 39 00 |
| **No. S5NS** Fitted with No. SNS Electric City Non-Skid tires | 33 50 |
| **No. S5CNS**—Fitted with New Departure Coaster brake and No. SNS Electric City Non Skid tires | 40.00 |
| **No. S5WC**—Fitted with No. SWC Thick Tread tires | 34.50 |
| **No. S5CWC** Fitted with New Departure Coaster brake and No. SWC Thick Tread tires | 41.00 |
| **No. S5DT**—Fitted with No. SDT M. & W. make double tube tires | 36.70 |
| **No. S5CDT**—Fitted with New Departure coaster brake and No. SDT M. & W. make double tube tires | $42 20 |
| **No. S5WS**—Fitted with No. SWS Wyeth Shield tread tires | 36 50 |
| **No. S5CWS**—Fitted with New Departure coaster brake and No. SWS Wyeth Shield tread tires | 43 00 |
| **No. S5MB**—Fitted with No. SMB Vitalic tires | 38 50 |
| **No. S5CMB** Fitted with New Departure coaster brake and No. SMB Vitalic tires | 45.00 |
| **No. S5VC**—Fitted with No. S80 Vacuum cup tires | 39 50 |
| **No. S5CVC**—Fitted with New Departure coaster brake and No. S80 Vacuum cup tires | $46 00 |
| **No. S5GJ**—Fitted with No. SGJ genuine G & J make detachable tires | 40 50 |
| **No. S5CGJ** Fitted with New Departure coaster brake and No. SGJ genuine G & J make detachable tires | 47 00 |
| **No. S5VCC**—Fitted with No. SVCC Vacuum Cup Clincher casings and Wyeth endless tubes | 41 90 |
| **No. S5CVCC**—Fitted with New Departure coaster brake and No. SVCC Vacuum Cup Clincher casings and Wyeth endless tubes | 48.50 |
| **Mud Guards** For front and rear wheels extra | 2 00 |

Packed, one in crate; weight crated, 45 lbs

For change of equipment see page 1305 To arrive at the price of special equipment deduct the price of the regular equipment on the wheel and add the price of the equipment wanted.

# BICYCLES

## WYETH SHIELD BRAND

The WYETH line of bicycles comprises ten models, each made of the highest grade of material, and representing the latest and most approved designs. They differ principally in finish and equipment and are absolutely guaranteed in every respect. All the frames are made of 18 gauge Shelby seamless tubing with one piece crank hangers. New Departure hubs turned from bar steel are used in each of the models.

MODEL 5A

DETAILS OF CONSTRUCTION.

**Frame**—22-inch regular; option of 20-inch; upper rear fork ⅝-inch, oval pattern; lower rear fork ¾-inch, slightly formed; made from the finest quality Shelby seamless 18-gauge steel tubing; flush joints; fishmouth reinforcements which eliminate vibration and buckled joints; in addition to this reinforcement the frame has heavy steel pins connecting all reinforcements, which make it absolutely unbreakable.

**Fork**—This important part has diamond shape forged crown, ⅞-inch; nickel plated, reinforced and nicely tapered.

**Finish**—Plain black enameled frame with vermilion red head and gold stripes; black enameled rims with red center and gold stripes; bright parts finely nickel plated.

**Crank Hanger**—Guaranteed not to bend or break; one piece; fitted with diamond pattern, 7-inch cranks; made from high carbon spring steel; the cones and cups on this hanger are so fitted that it is impossible for dirt to get in; all the bearings are packed in vaseline and will remain in good condition for a year or more; can be easily taken apart and put together by anyone.

**Hubs**—New Departure, Bell pattern; turned from solid bar of steel; fitted with the highest grade of cups, cones and bearings.

**Coaster Brake**—New Departure will be fitted on wheels as listed below.

**Chain**—Genuine English roller; highest quality.

**Gear**—74, 9-tooth rear, 24-tooth front sprocket.

**Seat Post**—⅞-inch; forward L, with pinch bolt binder.

**Handle Bar**—No. 1, adjustable; with leather wound grips; ⅞-inch internal expander.

**Wheels**—28 inch; with swaged spokes, 32 front and 36 rear.

**Pedals**—Ladies' Pirate rubber

**Saddle**—Ladies' coil spring.

**Tool Bag**—Grain leather, containing pump, wrench and oiler. Equipped with dress guards.

| | Each |
|---|---|
| **No. S5APNS** Fitted with No. SPNS Peerless Non-Slip tires | $34 50 |
| **No. S5ACPNS** Fitted with New Departure Coaster brake and No. SPNS Peerless Non-Skid tires | 41 00 |
| **No. S5ANS** Fitted with No. SNS Electric City Non-Skid tires | 35 50 |
| **No. S5ACNS** Fitted with New Departure Coaster brake and No. SNS Electric City Non-Skid tires | 42.00 |
| **No. S5AWC** Fitted with No. SWC Wyco Thick Tread tires | 36.50 |
| **No. S5ACWC**—Fitted with New Departure coaster brake and No. SWC tires | $43 00 |
| **No. S5ADT**—Fitted with No. SDT M. & W. make double tube tires | 37 70 |
| **No. S5ACDT**—Fitted with New Departure coaster brake and No. SDT tires | 44 20 |
| **No. S5AWS** Fitted with No. SWS Wyeth Shield tread tires | 38.25 |
| **No. S5ACWS**—Fitted with New Departure coaster brake and No. SWS tires | 45.00 |
| **No. S5AVC** –Fitted with No. S80 Vacuum cup tires | $41 50 |
| **No. S5ACVC** Fitted with New Departure coaster brake and No. S80 tires | 48 00 |
| **No. S5AGJ**—Fitted with No. SGJ genuine G. & J. make detachable tires | 42.50 |
| **No. S5ACGJ**—Fitted with New Departure coaster brake and No. SGJ tires | 49 00 |
| **No. S5AVCC**– Fitted with No. SVCC Vacuum Cup Clincher casings and Wyeth endless tubes | 43.90 |
| **No. S5ACVCC**—Fitted with New Departure coaster brake and No. SVCC casings and Wyeth endless tubes | 50.40 |

Packed, one in crate; weight crated, 45 lbs

**The above wheels can be fitted with any of the saddles or handle bars listed on the following pages. To arrive at the price of special equipment deduct the price of the regular equipment on the wheel and add the price of the equipment wanted.**

# BICYCLES

## WYETH SHIELD BRAND, MOTOR BIKE

The WYETH SHIELD BRAND Motor Bike is an extra heavy, especially well built bicycle warranted to be constructed of strictly first-class material throughout has an actual motorcycle appearance so much in demand by the up-to-date rider. this machine should not be confused with the cheap, similarly equipped machines, this bicycle is built for a Motor Bike and nothing else, not taken from our regular stock of frames and thus equipped

### MODEL 10, MOTOR BIKE

### DETAILS OF CONSTRUCTION

**Frame**—Made of highest quality 18-gauge Shelby seamless tubing, flush joints; fishmouth reinforcement, which eliminates vibration and buckled joints; double bars with top bar dropped down toward the seat post and measuring 20 inches from seat post to crank hanger.

**Fork**—Forged out of best quality steel tubing with double truss brace, forged together with fork in one piece.

**Finish** Carmine with black fancy head post mast; carmine rims with silver center and hair line stripes; bright parts finely nickel plated

**Crank Hangers**—Guaranteed not to bend nor break; one piece, fitted with diamond pattern, 7-inch cranks; made from high carbon, spring steel; the cones and cups on this hanger are fitted so that it is impossible for dirt to get in. All of the bearings are packed in vaseline and will remain in good condition for a year or more; can be easily taken apart and put together by anyone

**Coaster Brake**—New Departure pattern exclusively, we have found this brake to give the very best satisfaction.

**Chain**—⅛-inch, genuine English roller

**Handle Bars**—Motorcycle type; first quality, heavily nickel plated, ⅞-inch stem; fitted with rubber motor bike grips.

**Pedals**—Extra heavy, motorcycle size; first quality rubber blocks, attached with bolt and nut, making them easily exchanged when worn

**Saddle**—Eagle Easy pattern; extra heavy, motorcycle type, measuring 10¾x8¾ inches, a very easy riding saddle

**Tool Bag** Round type, length 8 inches; extra heavy grain leather; contains pump, wrench and oiler

**Luggage Carrier**—Carmine enameled; well braced and of sufficient strength to carry a very heavy weight.

**Mud Guards**—Extra heavy, stamped steel; motorcycle type, enameled to match bicycle; nickel plated steel double front and rear brace, front guard fitted with leather splasher; rear guard has clamp attached for holding stand when not in use.

**Stand**—Carmine enameled; made of drop forged, channel steel; when raised it locks automatically to the mud guard and is a very substantial attachment

| | Each |
|---|---|
| **No. S10CPNS**—Fitted with New Departure Coaster brake and No SPNS Peerless Non-slip tires .. | $52 00 |
| **No. S10CNS** Fitted with New Departure Coaster brake and No. SNS Electric City Non-skid tires .. | 53 00 |
| **No. S10CWC**—Fitted with New Departure Coaster brake and No. SWC Wyco Thick Tread tires ..... | 54 00 |
| **No. S10CWS** Fitted with New Departure Coaster brake and No. SWS Wyeth Shield Tread Non-skid guaranteed tires. ... | 56 00 |

### TOOL BOXES

| | Each |
|---|---|
| **No. SMBT** Constructed to fit model 10 Wyeth Motor Bike and enameled to match . . . . .. ..... | $ 2.50 |

# BICYCLES

## ELECTRIC CITY MOTOR BIKE

The Electric City bicycle was built to meet the demand for a reliable wheel at a low price. The material and workmanship employed in its construction are of the very best that can be procured and give an exceptional value. The frame is made of heavy Shelby seamless 18-gauge steel tubing, such as is used in our highest grade wheels and is enameled in plain blue. The fork crown is plain drop forged finely enameled and nickeled. The crank hanger is made in a single piece and the wheels have tubular bell shaped hubs with selected bearings. The rims are enameled in gray with gold stripes and all the bright parts are finely nickel plated.

MODEL 11, MOTOR BIKE

### DETAILS OF CONSTRUCTION

**Frame**—20 and 22 inch regular; main tubes, 1 inch; head, 1⅛ inches; upper rear fork ⅝ inch; oval pattern; rear lower fork ¾ inch, slightly formed; made from Shelby seamless 18-gauge steel tubing throughout; flush joints; fishmouth reinforcements throughout.

**Fork**—This important part has drop forged crown; nickel plated; reinforced sides.

**Finish**—Plain blue enameled frame; gray enameled rims; with gold stripes; bright parts finely nickel plated.

**Crank Hanger**—One piece, fitted with diamond pattern, 7-inch cranks; all the bearings are packed in vaseline and will remain in good condition for a year or more; can be easily taken apart and put together by anyone.

**Hubs**—Tubular; bell shaped; selected steel bearings.

**Coaster Brake**—New Departure; will be fitted on wheels as listed below.

**Chain**—Genuine English roller.

**Gear**—81, 9-tooth rear and 26-tooth front sprocket.

**Seat Post**—⅞ inch forward L pinch bolt binder.

**Handle Bars**—Motorcycle type; heavily nickel plated; ⅞-inch stem; fitted with motor bike grips.

**Pedals**—Extra heavy motorcycle size; first quality rubber blocks, attached with bolt and nut, making easily exchanged when worn.

**Saddle**—Eagle Easy pattern; extra heavy motorcycle type, size 10¾ x 8¾ inches.

**Tool Bag**—Round type; length 8 inches; grain leather; contains pump, wrench and oiler.

**Luggage Carrier**—Blue enameled, well braced and of sufficient strength to carry a heavy load.

**Mud Guards**—Stamped steel; enameled to match bicycle; nickel plated steel front and rear brace; front guard fitted with leather splasher; rear guard has clamp attached for holding stand when not in use.

**Stand**—Blue enameled; made of dropped forged, channel steel, when raised it locks automatically to the mud guard.

| | Each |
|---|---|
| **No. S11CNS**—Fitted with New Departure Coaster brake and No. SNS Electric City Non-skid tires | $46.00 |

Packed, one in crate, weight crated 50 lbs.

# WASHING MACHINES

### 1904 AUTOMATIC

Louisiana red cypress, natural finish; all castings exposed to water, galvanized to prevent rust, other iron parts enameled; large detachable lid; sides and bottom of inside deeply corrugated; large circular rubboard, pressure of which can be regulated by operator

Each

No. 1904—Capacity 8 shirts; height 40 inches; diameter 25 inches; weight 68 lbs. . . . . $11.00

### BANNER GEARLESS WATER MOTOR

Louisiana red cypress tub, attractively finished on outside, inside deeply corrugated on side and bottom; reinforced top with large detachable lid, heavy detachable legs; cypress dasher with shaft adjustable through top of motor instead of below dasher; motor constructed entirely of brass, with only two bearings which are self lubricating and two heavy springs which are so made and protected that there is no severe strain on them, their function being to seat the valves at each reversal and prevent them from being jammed; extra long, high grade hose with screw coupling to motor on intake hose

Each

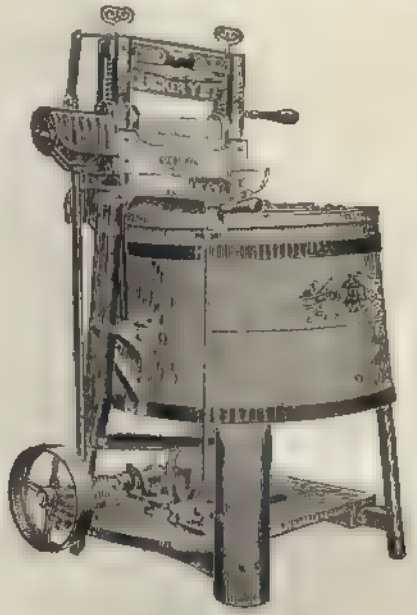
No. 1000—Capacity 8 shirts, height 34½ inches; diameter 25 inches, weight 60 lbs $20 00

### QUICKER YET, HAND

Tongued and grooved Louisiana red cypress; galvanized hoops, double thickness cover with steel fastener; ball bearing; wood dolly hung close to bottom so that either a small garment or a tub full can be satisfactorily washed; steel lever; balancing balls underneath tub revolve as lever is pulled, producing a perfect balance without a dead center.

Each

No. 750—Capacity 8 shirts; height 31 inches; diameter 22 inches; weight 90 lbs. . . . . $15.00



### QUICKER YET, POWER

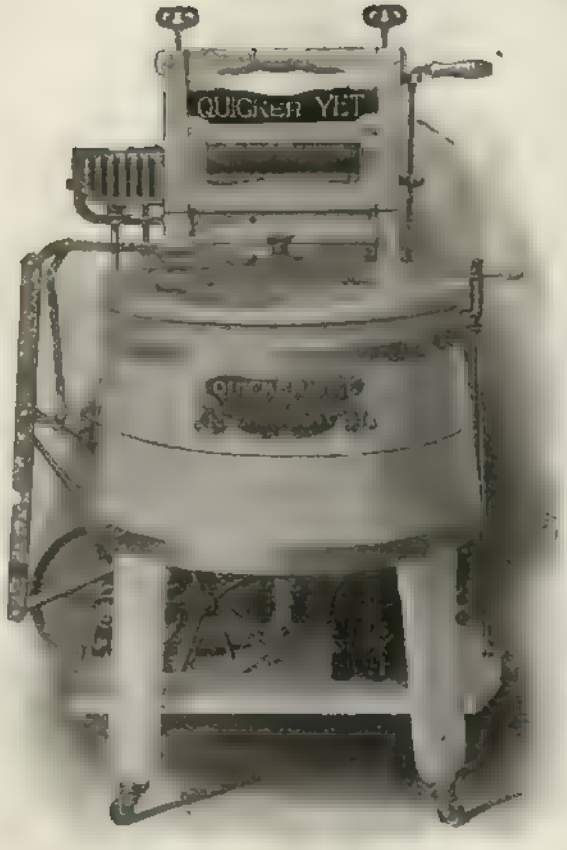
With Wringer

Tongued and grooved Louisiana red cypress; galvanized hoops; double thickness cover with steel fastener; ball bearing; wood dolly hung close to bottom; no heavy parts on lid and no parts unguarded so as to cause accidents; operator has free access to all levers; lid can be opened or closed without making disconnections; wringer has positive worm gear drive, is ball bearing, reversible and guaranteed for 5 years; machine has emergency handle and crank for wringer; washer can be operated simultaneously with or separately from the wringer.

Each

No. 1800—Capacity 8 shirts; height 44 inches; diameter 22 inches; weight 147 lbs. . . . . $36.00

# WASHING MACHINES




## QUICKER YET, ELECTRIC

**In Ordering, Be Sure to Specify Kind of Current and Voltage.**

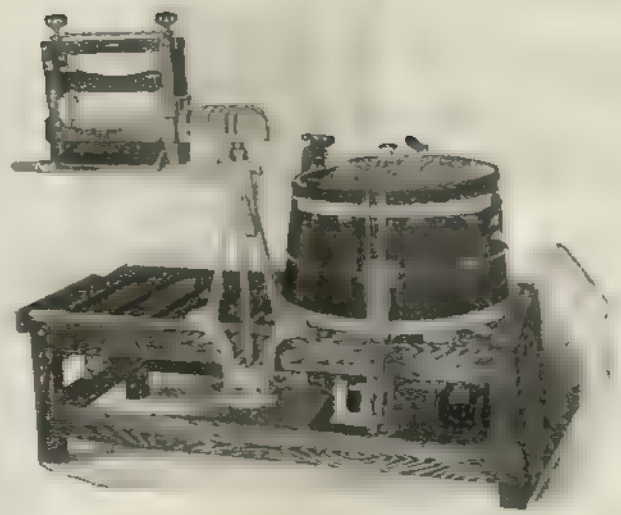
Kiln-dried red cypress tub and legs, finished in pure white enamel, easily cleaned with soap and water, steel hoops and all metal part gold bronzed specially designed, reversible wringer, guaranteed five years, fitted with extension drip board, operated by same motor which runs machine; washing and wringing can be done at same time; equipped with Emerson, positive drive motor, waterproof and of sufficient power to operate under most strenuous circumstances; all exposed gears enclosed, automatic gear cut out, so that machine can only be operated when lid is closed, lever located where operator can reach it without coming in contact with any mechanical parts of machine; separate lever to control wringer; adjustable wood dolly

| | Each |
|---|---|
| **No. 350AC**—For alternating current; 110 volts; height from floor to top of lid 31¼ inches; from floor to top of wringer 43⅜ inches; diameter of tub 24½ inches; weight 145 lbs.. | $75.00 |
| ***No. 370AC** For alternating current, any other voltage than No 350AC.. | 75 00 |
| ***No. 350DC** For direct current, otherwise same as No. 350 AC... | 75 00 |

## QUICKER YET, PLATFORM

Kiln-dried red cypress tub, stained and varnished; platform which supports tub and wringer built of first grade yellow pine, supplied with an extension for clothes basket which can be slid back under platform; all breakable parts made of steel and all malleable castings are made of best iron; all gears are machined; horizontal steel driving shaft extends from end to end under platform carrying a reversible clutch mechanism movable along power shaft and connected with vertical shaft held in position by cast iron frame mounted on rollers, which slides along platform and to which is fastened the wringer; wringer is equipped with quick release feature, and reverse gears operated by a lever so placed as to be in easy reach of the operator; both wringer and washer may be run at same time or separately; wringer may be rolled from one end of platform to the other and swung to side of machine, if desired; adjustable dolly on washer.

| | Each |
|---|---|
| **No. G**—Gasoline engine power; 2x8 belt wheel; height from floor to top of lid 35¾ inches, from floor to top of wringer 52¼ inches; diameter of tub 24 inches; weight 305 lbs | $54 00 |
| **No. E**—Electric power; 110 volt, alternating current motor, attachment cord and plug; weight 340 lbs; otherwise same as above | 102 00 |

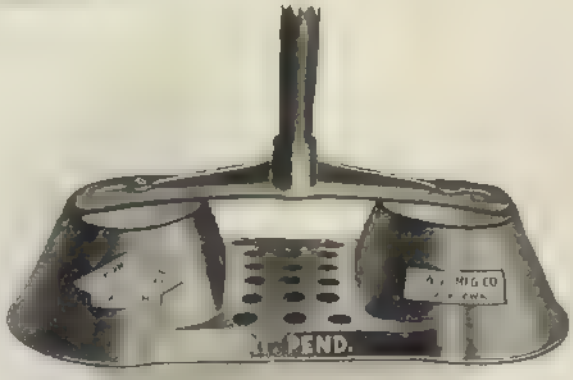


## WASHERS AND RINSERS

RAPID

Bright tin; hardwood handle. by using a vertical motion, water is forced through the fabric and the dirt or soap suds thus removed; can be used for curtains or delicate fabrics without tearing

| | Doz |
|---|---|
| No. 500—Diameter 8 inches; height 7½ inches; 3½ foot handle weight per dozen 21 lbs | $10 00 |

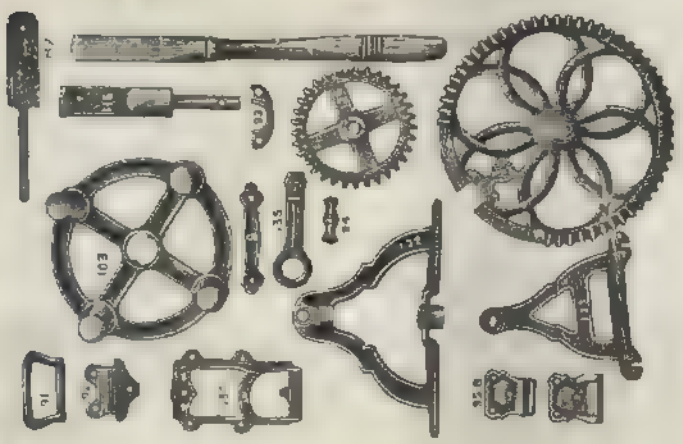


SIPHON SUDSER

IXX tin; the vacuum suction cups alternately suck and compress suds, air and boiling hot water through the clothes all the way to bottom of tub or boiler. The perforated plate between the cups squeezes suds through the clothes every time the handle is pushed or pulled in either direction; to be used with a rocking motion; galvanized cross bar connects the cups and has a socket to hold the handle.

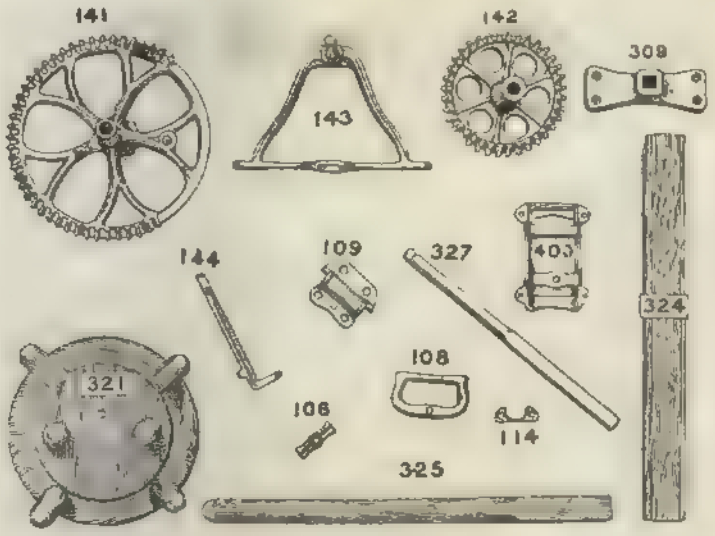
| | Doz. |
|---|---|
| No. 200—Size 8¾x18¾ inches; height 4½ inches; 24-inch white hickory handle; weight per dozen 60 lbs. | $48 00 |

## WASHING MACHINE REPAIRS



FOR CLOVER LEAF, SQUARE WESTERN AND UNEEDA

| | Each |
|---|---|
| No. 9—Iron handles; weight 2 oz. | $ 0.20 |
| No. 87—Dasher stem and shaft; weight 1⅝ lbs | .60 |
| No. 91—Handle; weight 5 oz. | .20 |
| No. 92—Handle plate; weight 5 oz. | 20 |
| No. 93—Spout; weight 2 oz. | .20 |
| No. 94—Lid lock; weight 1 oz. | .20 |
| No. 95B— No. 95C— Hinge; weight 4 oz. | .40 |
| No. 103—Iron dasher, weight 2 lbs | 80 |
| No. 116—Dasher stem and shaft; weight 1¾ lbs | .60 |
| No. 118—Wood lever; weight 6 oz. | 50 |
| No. 130—Leg socket; weight 11 oz. | .60 |
| No. 131—Large wheel; weight 3¾ lbs. | 1.20 |
| No. 132—Housing; weight 2¾ lbs. | .80 |
| No. 133—Back brace; weight 1⅜ lbs. | .40 |
| No. 134—Small wheel; weight 1⅜ lbs. | .40 |
| No. 135—Wheel lock; weight 7 oz. | .20 |
| No. 172—Dasher, wood; weight 2 lbs | .80 |



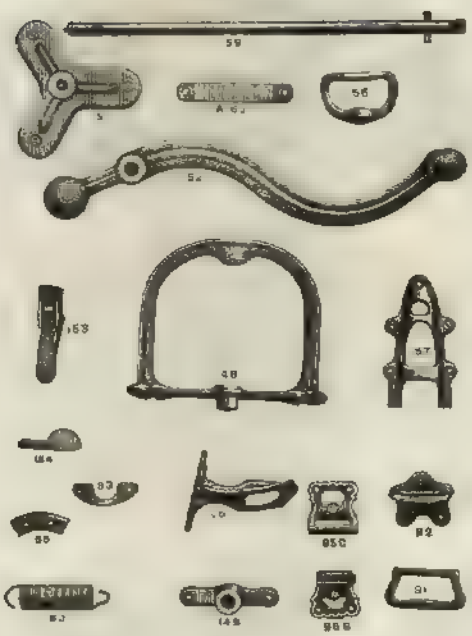

FOR WYETH

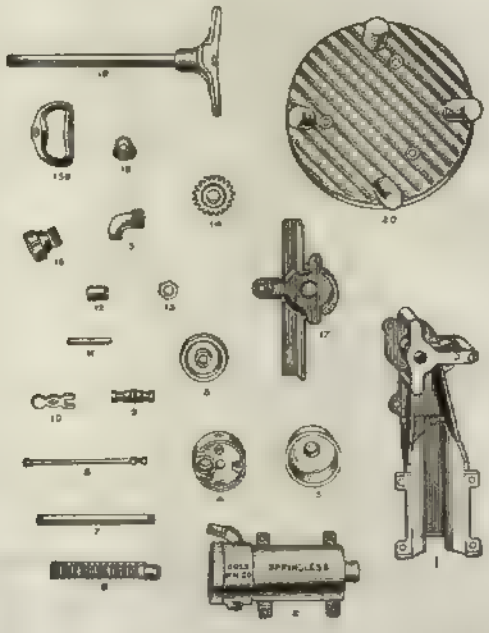
| | Each |
|---|---|
| No. 106—Button; weight 4 oz. | $ 0 10 |
| No. 108—Handle; weight 5 oz. | 20 |
| No. 109—Clip; weight 5 oz. | 20 |
| No. 114—Spout; weight 2 oz. | 10 |
| No. 141—Wheel; weight 3¾ lbs. | 30 |
| No. 142—Pinion; weight 1½ lbs. | 30 |
| No. 143—Stand; weight 2¾ lbs. | .30 |
| No. 144—Side stand; weight 10 oz. | 20 |
| No. 309—Dolly Batten; weight 1 lb. | 40 |
| No. 321—Dolly; weight 2½ lbs. | 60 |
| No. 324—Leg; weight 10 oz. | 10 |
| No. 325—Lever; weight 10 oz. | .20 |
| No. 327—Dolly shaft; weight 1¼ lbs. | 40 |
| No. 400—Leg Holder; weight 10 oz. | .20 |

**Minimum Charge on Any One Order Will Be 15 Cents Net**

NOTE—Postage and express charges not included in above prices. These will be charged extra when repairs are shipped separate.

# WASHING MACHINE REPAIRS





### FOR 1904 AUTOMATIC

| | | Each |
|---|---|---|
| No. 91 | —Handle; weight 5 oz. | $ 0.20 |
| No. 92 | —Handle plate; weight 5 oz | .20 |
| No. 93 | —Spout, weight 2 oz. | .20 |
| No. 95C—<br>No. 95B— | } Interlocking hinges; weight 4 oz | .40 |
| No. 148 | —Housing; weight 3⅞ lbs. | 1.00 |
| No. 149 | —Inside spring holder; weight 7 oz. | .28 |
| No. 150 | —Outside spring holder; weight 14 oz. | .24 |
| No. 151 | —Dasher foot; weight 1⅛ lbs. | .48 |
| No. 152 | —Operating handle, weight 2⅞ lbs. | 1.00 |
| No. A153 | —Hasp steel; weight 4 oz. | .20 |
| No. A154 | —Staple steel; weight 2 oz. | .12 |
| No. 156 | —Lifting handle; weight 7 oz. | .20 |
| No. 157 | —Leg holder; weight 8 oz. | .40 |
| No. 158 | —Circular rubboard; weight 5 lbs. | 2.00 |
| No. 159 | —Vertical shaft, galvanized; weight 1½ lbs. | .80 |
| No. 160 | —Expansion spring; weight 6 oz. | .20 |
| No. A160 | —Wringer box bracket; weight 1 oz. | 20 |

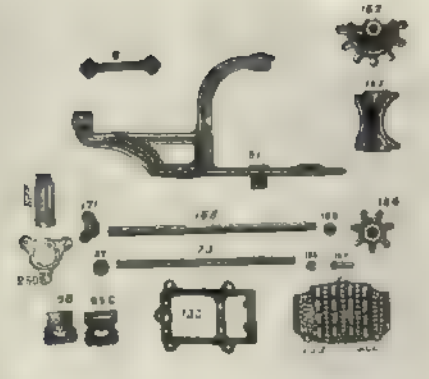
### FOR SPRINGLESS, WATER MOTOR.

| | | Each |
|---|---|---|
| No. E1 | —Bracket; weight 5½ lbs. | $ 3.00 |
| No. E2 | —Cylinder; weight 3⅛ lbs. | 9.60 |
| No. E3 | —Cylinder cap; weight 13 oz | 2.40 |
| No. E4 | —Valve housing; weight 1¼ lbs. | 7.20 |
| No. E5 | —Piston; weight 8 oz. | 1.80 |
| No. E6 | —Piston rack; weight 8 oz. | 1.44 |
| No. E7 | —Piston rod; weight 6 oz. | 1.80 |
| No. E8 | —Pull rod, weight 3 oz | 1.80 |
| No. E9 | —Valve; weight 2 oz | 1.80 |
| No. E10 | —Trigger; weight 2 oz. | .60 |
| No. E11 | —Roller pin; weight 1 oz. | .60 |
| No. E12 | —Roller; weight 2 oz. | .60 |
| No. E13 | —Packing nut; weight 2 oz. | .60 |
| No. E14 | —Gear; weight 12 oz. | .96 |
| No. E15 | —Inlet pipe; weight 4 oz. | 1.20 |
| No. E16 | —Valve bushing; weight 1 oz. | 96 |
| No. E17 | —Gear guard; weight 1⅜ lbs. | .96 |
| No. E18 | —Smooth faucet connection; weight 5 oz. | 1.20 |
| No. E19 | —Dasher shaft and foot; weight 2 lbs. | 1.80 |
| No. E20 | —Wood dasher with pegs; weight 2½ lbs. | 1 20 |
| No. 156 | —Dasher shaft handle; weight 7 oz | .60 |
| Hose (set of two pieces); weight 3 lbs. | | 1.68 |

**Minimum Charge on Any One Order Will Be 15 Cents Net**

**NOTE—Postage and express charges not included in above prices. These will be charged extra when repairs are shipped separate.**

# WASHING MACHINE REPAIRS



## FOR BANNER ROTARY

| | | Each |
|---|---|---|
| No. 0 | —Lift handle; weight 2 oz. | $ 0.20 |
| No. 13 | —Lid latch; weight 2 oz. | .20 |
| No. 71 | —Hand wheel, weight 14 lbs. | 3.00 |
| No. 91 | —Side handle, weight 5 oz. | .20 |
| No. 92 | Side handle plate; weight 5 oz | .20 |
| No. 93 | —Spout; weight 2 oz. | .20 |
| No. 95B—<br>No. 95C— | Hinge; weight 4 oz. | .40 |
| No. 130 | —Leg socket; weight 11 oz | .60 |
| No. 161 | —Gear frame; weight 5¾ lbs. | 1.60 |
| No. 162 | —Gear wheel complete; weight 1⅞ lbs. | 60 |
| No. 163 | —Cam for gear wheel; weight 1⅛ lbs. | .40 |
| No. 164 | —Pinion; weight 12 oz. | .40 |
| No. 165 | —Horizontal shaft roller; weight 1 oz. | .20 |
| No. 166 | —Gear roller; weight 1 oz. | .20 |
| No. 167 | —Gear roller stud; weight 1 oz. | 20 |
| No. 168 | —Horizontal shaft; weight 1⅛ lbs. | .60 |
| No. 169 | —Vertical shaft washer; weight 1 oz. | .20 |
| No. 171 | —Wing nut; weight 3 oz. | .20 |
| No. 172A | —Wood dasher with pins; weight 2 lbs. | .80 |
| No. 173 | —Vertical shaft, grooved; weight 1 lb | .60 |
| No. 175 | —Lid stop, iron; weight 7 oz. | .20 |
| No. 199 | —Back gear cover; weight 1⅝ lbs | .40 |
| No. 200 | —Front gear cover; weight 1⅝ lbs. | .40 |
| No. 229 | —Telescope dasher post; weight 14 oz. | .40 |
| No. 230 | —Telescope dasher foot; weight 1⅛ lbs. | 60 |

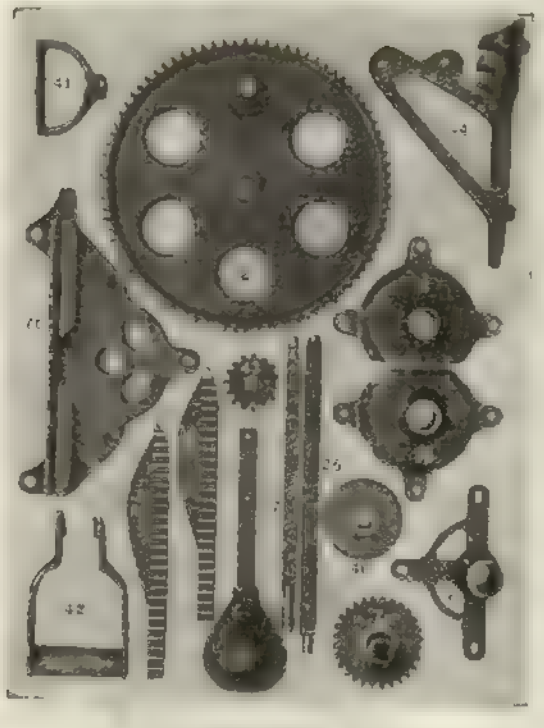
## FOR BOSS

| | | Each |
|---|---|---|
| No. 0 | —Lower cylinder pin; weight 3 oz. | $ 0.20 |
| No. 1 | —Shaft, external; weight 3¼ lbs. | .60 |
| No. 2 | Upper cylinder pin; weight 4 oz. | 20 |
| No. 02 | Upper cylinder pin, weight 4 oz | .20 |
| No. 3 | Shaft bracket, external, weight 1 lb. | .32 |
| No. 4 | —Caster, weight 4 oz | 24 |
| No. 05 | —Boxing; weight 2 oz. | .20 |
| No. 6 | —Spout; weight 2 oz. | .20 |
| No. 7 | —Center post; weight 14 oz. | .48 |
| No. 9 | —Handle iron, small; weight 3 oz | .20 |
| No. 10 | —Wrench; weight 2 oz. | .20 |
| No. 11R | —Side hinge, right; weight 6 oz. | .40 |
| No. 11L | —Side hinge, left; weight 6 oz. | .40 |
| No. 12R | —Side hook, right; weight 3 oz. | .20 |
| No. 12L | —Side hook, left; weight 3 oz. | .20 |
| No. 15 | —Cylinder hook; weight 5 oz | .32 |
| No. 25 | —Slide, in top slides; weight 7 oz. | 28 |
| No. 26 | —Pitman rod, external; weight 11 oz. | 80 |
| No. 27 | —Connecting lever, external; weight 11 oz. | .48 |
| No. 48 | —Hand wheel; weight 8 lbs. | 1 60 |
| No. 53 | —Corner iron; weight 2 oz. | .20 |
| No. 54 | —Horizontal lever; internal; weight 9 oz | .44 |
| No. 55 | —Oscillating lever, internal; weight 13 oz. | 64 |
| No. 56 | —Lower cylinder lever; weight 4 oz. | 24 |
| No. 96 | —Crank shaft, internal; weight 1¾ lbs. | 60 |
| No. 97 | —Bearing bracket, internal; weight 3½ lbs. | 1.20 |
| No. 98 | —End bearing, in top; weight 4 oz. | 20 |
| No. 99 | —End thrust cap; weight 3 oz. | 20 |
| No. 100 | —Center board side; weight 7 oz. | 28 |
| Pressure springs (in sets); weight 2 oz. | | 40 |

**Minimum Charge on Any One Order Will Be 15 Cents Net**

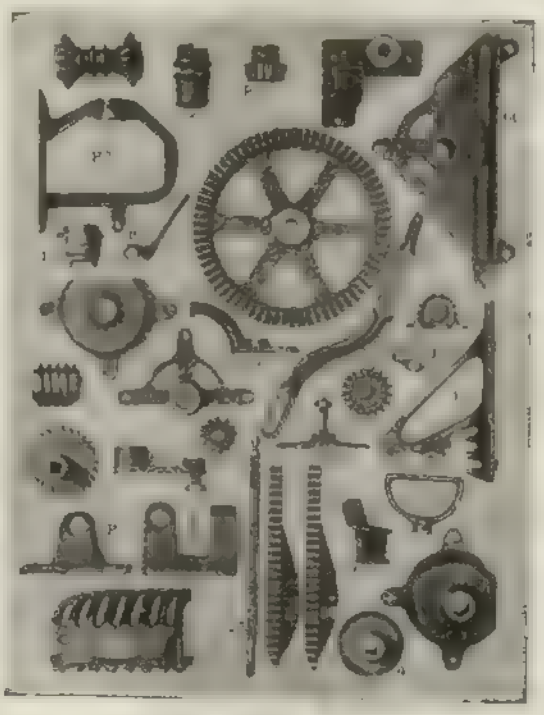
NOTE—Postage and express charges not included in above prices. These will be charged extra when repairs are shipped separate.

# WASHING MACHINE REPAIRS



FOR QUICKER YET, HAND

| | | Each |
|---|---|---|
| No. 1 | —Weighted arms; weight 4 lbs. | $ 1.50 |
| No. 2 | —Large gear wheel; weight 2½ lbs. | 1.10 |
| No. 3 | —Main lever; weight 2 lbs. | 1.34 |
| No. 4 | —Ball bearings; weight 2 oz. | .22 |
| No. 5 | —Top gear case (old pattern); weight 1 lb. | .48 |
| No. 6 | —Bottom gear case (old pattern); weight 11 oz. | .46 |
| No. 7 | —Agitator gear; weight ⅝ lb. | .74 |
| No 8 | —Rack bar (old pattern); weight 10 oz. | .38 |
| No 9 | —Lid fastener, complete; weight 9 oz. | .46 |
| No. 10 | —Spring; weight 2 oz. | .22 |
| No. 13 | —Wringer box brace; weight 1 oz. | .08 |
| No. 14 | —Wood handle; weight 8 oz. | .22 |
| No. 15 | —Wire hand attachment; weight 4 oz. | 30 |
| No 17 | —Large gear wheel stud; weight 2 oz. | .15 |
| No. 19 | —Leg brace; weight 4 oz. | .15 |
| No. 20 | —Spout; weight 1 oz. | .15 |
| No. 21 | —Water plug; weight 2 oz. | .15 |
| No. 25 | —Agitator, complete; weight 2½ lbs. | .74 |
| No. 25A | —Agitator (head only); weight 1 lb. | .38 |
| No 26 | —Arm post; weight 1 lb. | .52 |
| No. 27 | —Agitator stem; weight 1 lb. | .38 |
| No. 28 | —Rack slide (old pattern); weight 1 lb. | .22 |
| No. 29 | —Rack adjuster (old pattern); weight 9 oz. | .22 |
| No. 30 | —Pitman rod; weight 1 lb. | .46 |
| No. 31 | —Gear frame; weight 2 lbs. | .76 |
| No. 40 | —Dolly plate; weight 8 oz. | .22 |
| No. 41 | —Agitator handle; weight 7 oz. | .22 |
| No. 42 | —Foot stirrup, malleable; weight ¾ lb. | .38 |
| No. 43 | —Arm post gear; weight 7 oz. | .68 |
| No. 44 | —Fulcrum; weight 3½ lbs. | .74 |
| No. 50 | —Top gear case (new pattern); weight 1 lb. | .46 |
| No 60 | —Combination rack slide and gear case; weight 2½ lbs. | .92 |
| No 80 | —Rack bar, malleable; weight 11 oz. | .46 |



FOR QUICKER YET, POWER

| | | Each |
|---|---|---|
| No. P-1 | —Twin gear and hub; weight ⅞ lb. | $ 0 90 |
| No. P-2 | —Sliding clutch; weight 11 oz. | 30 |
| No. P-3 | —Wringer shaft bracket; weight 2⅝ lbs. | .90 |
| No. P-4 | —Hub clutch; weight 9 oz. | 38 |
| No. P-5 | —Lower shifter bracket; weight 6 oz. | .15 |
| No. P-6 | —Worm; weight 1 lb. | .46 |
| No. P-7 | —Worm gear; weight 6 oz. | .30 |
| No. P-8 | —Crank; weight 1 lb. | 46 |
| No. P-9 | —Shield; weight 1⅝ lbs. | .60 |
| No. P-10 | —Upper shifter bracket; weight ⅝ lb. | .22 |
| No. P-11 | —Upper W. S. bracket; weight 4 oz | 15 |
| No. P-13 | —Wringer drive gear; weight 6 oz. | 46 |
| No. P-14 | —Bottom W. S. bracket; weight 2½ oz | .15 |
| No. P-15 | —Crank shaft box; weight 1¾ lbs. | 46 |
| No. P-16 | —Double drive box; weight 2¾ lbs. | 90 |
| No. P-17 | —Worm gear box; weight 2¾ lbs. | 90 |
| No. P-18 | —Small drive pinion; weight 9 oz. | 46 |
| No. P-19 | —Large bevel gear; weight 3 lbs. | 90 |
| No. P-20 | —Shifter arm; weight 9 oz. | 30 |
| No. P-21 | —Shifter; weight 1 lb. | 46 |
| No. P-22 | —Shifter bracket; weight ½ lb. | 30 |
| No. 5 | —Top gear case; weight 1 lb. | .46 |
| No. 6 | —Bottom gear case; weight ⅝ lb | .46 |
| No. 7 | —Agitator gear; weight ⅝ lb. | 68 |
| No. 8 | —Rack bar; weight ⅝ lb. | .38 |
| No. 22 | —Parallel retainer; weight 6 oz. | 15 |
| No. 23 | —Rack link; weight 1 lb. | 38 |
| No. 24 | —Lever pins; weight 2 oz. | 08 |
| No. 25A | —Dolly head (wood only); weight 1 lb. | 38 |
| No. 27 | —Dolly stem; weight 1 lb. | 38 |
| No. 40 | —Dolly plate; weight 6 oz. | 22 |
| No. 41 | —Dolly handle; weight 6 oz. | 22 |
| No. 44 | —Fulcrum; weight 3½ lbs. | 60 |
| No. 50 | —New top gear case; weight 1 lb. | 46 |
| No. 60 | —New bottom gear case; weight 2½ lbs. | 74 |
| No. 80 | —New rack bar; weight 1 lb. | 38 |

Minimum Charge on Any One Order Will Be 15 Cents Net.

NOTE—Postage and express charges not included in above prices. These will be charged extra when repairs are shipped separate.

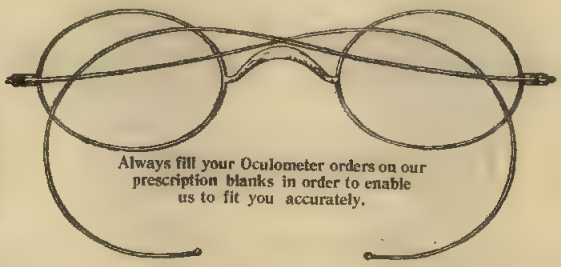
# Solid Gold and Gold Filled Spectacles

**The "DEFI" Has No Equal. The Perfect Frame.**
**Permanent Guarantee. Made Only in 1-10 12-K.**

| | | Dozen | Each |
|---|---|---|---|
| 9924 | 12K 1-10 Gold Filled Regular Temples, fitted with first quality crystal convex lenses | $21 00 | $2 40 |
| 9925 | 12K 1-10 Gold Filled Cable Temples, fitted with first quality crystal convex lenses | 25 00 | 2 65 |

Furnished in Rimless Spectacles at same prices.

To Supply a Gold Filled Frame, one that is gold filled in all parts, at a very low price, is our object in placing this before you.



Always fill your Oculometer orders on our prescription blanks in order to enable us to fit you accurately.

For Price Bifocal Lenses add $1.40 list to price of glasses desired.

| | | Dozen | Each |
|---|---|---|---|
| 9926 | Gold Filled Regular Temples | $ 9 60 | $1 00 |
| 9927 | Gold Filled Cable Temples | 12 00 | 1 20 |

Regular Periscopic Lenses to fit above, 60c list per pair.

Our Optical Department is under the supervision of an "Expert Optician" and we guarantee absolute satisfaction.

9929

We carry the highest grade of gold filled goods, made for our exclusive use and guarantee them to be absolutely the finest filled article on the market.

| | | Each |
|---|---|---|
| 9929 | Solid Gold Spectaclette Frame, offset cork guard, first quality crystal lenses | $ 8 25 |
| 9930 | Solid Gold Spectaclette Skeleton Mountings, offset cork guard, first quality crystal lenses | 11 10 |
| 9931 | Gold Filled Spectaclette Frame, offset cork guard, first quality crystal lenses | 3 00 |
| 9932 | Gold Filled Spectaclette Skeleton Mountings, offset cork guard, first quality crystal lenses | 3 50 |

Single price charged on less than ½ dozen of a kind.

All Prices Subject to the Regular Discount, Except Those on Diamonds. Pages 1 to 16.

# Solid Gold Scarf Pins

Quality Guaranteed. Warranted to Give Satisfaction.

**6879**
Bright Finish,
**$1 20** each.

**6880**
Bright Polished or Roman Finish,
**$1 35** each.

**6881**
Bright Finish, Fine Pearl,
**$1 40** each.

**6882**
Bright Finish,
**$1 40** each.

**6883**
Ruby or Emerald,
**$1 50** each.

**6884**
Bright Finish, Ruby Setting,
**$1 50** each.

**6885**
Bright and Roman Finish, Pearl Settings,
**$1 60** each.

**6886**
Roman Finish,
**$1 60** each.

**6887**
Bright Finish,
**$1 60** each.

**6888**
Roman Finish,
**$1 70** each.

**6889**
Roman Finish, Bright Cut,
**$1 75** each.

**6890**
Bright Finish, Ruby and Pearl Settings,
**$1 80** each.

**6891**
Roman Finish, Pearl Setting,
**$1 80** each.

**6892**
Bright Finish, Fine Opal,
**$1 90** each.

**6893**
Roman Finish,
**$3 00** each.

**6894**
Bright Finish, Opal Setting,
**$2 20** each

**6895**
Bright Finish, Pearl Settings,
**$2 20** each.

**6896**
Bright Polished or Roman Finish,
**$2 35** each.

**6897**
Whole Pearl,
**$2 40** each.

**6898**
Roman Finish, Moonstone,
**$3 40** each.

**6899**
Roman Finish, Pearl Setting,
**$2 50** each.

**6900**
Bright Finish, Fine Topaz Setting,
**$4 00** each

**6901**
Old English Finish, Baroque Pearl,
**$2 60** each

**6902**
Fine Coral,
**$2 60** each.

**6903**
Fine Opal,
**$2 70** each.

**6904**
Bright Finish, Pearl Settings,
**$2 70** each.

**6905**
Roman Finish, Bright Cut,
**$2 95** each.

**6906**
Roman Finish, Real Diamond,
**$3 60** each.

**6907**
Roman Finish, Real Opal Setting,
**$3 00** each.

**6908**
Rose Finish, Red Sardonyx Setting,
**$3 50** each.

**6909**
Bright Finish, White Stones,
**$3 60** each.

**6910**
Green Gold Leaves, Pearl Grapes,
**$3 60** each.

A Satisfied Customer Is a Regular Customer. Are You One of the Regulars?

"THE HOUSE OF QUALITY"

# MARINE LIGHTS

## COMBINED LIGHTS—Class 1

**For Boats 25 Feet Long and Shorter**

No. 1

Fig. 1534

No. 3

Fig. 1535

| Number | | 1 | | 3 |
|---|---|---|---|---|
| Kind of glass | | Plain | Fresnal | Triplex Lenses |
| Size of glass | inches | 3 1/4 x 4 | 3 x 4 | 3 x 4 |
| Height | " | 8 1/2 | 8 1/2 | 8 1/2 |
| Width | " | 5 | 5 | 5 |
| Price, galvanized | each | 4.00 | 6.00 | 6.50 |
| " Brass | " | 5.50 | 7.50 | 8.00 |

CHICAGO STYLE
Spring Fount, Plain Glass

DETROIT STYLE
Plain Glass, Removable Screen

BOSTON STYLE
Spring Fount, Round Fresnal Lenses

Fig. 1536

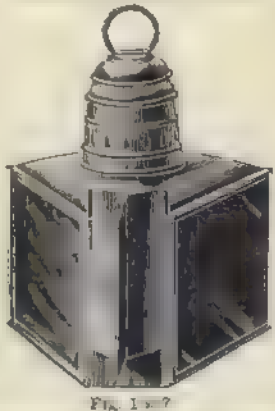


Fig. 1537

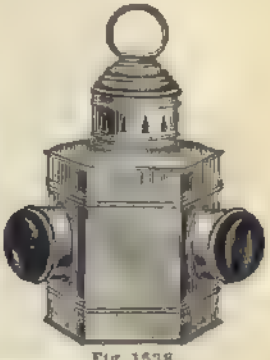


Fig. 1538

| Style | | Chicago | Detroit | Boston |
|---|---|---|---|---|
| Number | | 1 | 2 | 9 |
| Size of glass | inches | 4 x 4 1/2 | 5 x 6 | 3 |
| Extreme height | " | 12 | 12 | 9 1/2 |
| Width | " | 7 | 8 1/2 | 8 1/2 |
| Price, galvanized | each | 5.00 | 6.00 | 6.00 |
| " Brass | " | 6.50 | 7.50 | 8.50 | 7.50 |

Detroit style without screen, deduct 1.00. Boston style with back door, add .75.
Any of the above lights fitted for electricity, extra each .75.

# MARINE LIGHTS

STERN OR ANCHOR LIGHTS — SIDE LIGHTS

No. 11 Fresnel Glass — No. 12 Triplex Lense — No. 16 Fresnel Glass — No. 18 Triplex Lense

Fig. 1539

Fig. 1540

Fig. 1541

Fig. 1542

## STERN OR ANCHOR LIGHTS—With Hinge Founts

### Class 1—For Boats 25 Feet Long and Shorter

| Number | | | | |
|---|---|---|---|---|
| Kind of glass | | | Fresnal | Triplex |
| Size " " inch clear | inches | 3½ x 3 | 3 x 3 | 3½ x 3 |
| Height | " | 9 | 8½ | 8¼ |
| Price, galvanized | each | 2 00 | 2 50 | 2 75 |
| " Brass | " | 3 00 | 4 00 | 4 25 |
| " With blue, ruby or green globes, extra | " | 50 | 1 00 | .. |
| " Fitted for electricity, extra | " | 75 | 75 | 75 |

## SIDE LIGHTS—With Spring Founts

### Class 8—For Boats 26 to 39 Feet Long

| Number | | 16 | 18 |
|---|---|---|---|
| Kind of glass | | Fresnal | Triplex |
| Size " " in clear | inches | 4 x 5 | 4 x 4½ |
| Number of square inches | " | 20 | 18 |
| Price, galvanized | per pair | 6 75 | 6 75 |
| " Brass | " | 9 50 | 9 75 |
| " Galvanized, with hinge bottom, net extra | " | 10 | 10 |
| " Brass, " " " " " | " | 20 | 20 |
| " Fitted for electricity, extra | " | 1 50 | 50 |

# MARINE LIGHTS

## BOW LIGHTS—With Spring Founts

CLASS 2

No. 19
Fresnal Glass

Fig. 1543

No. 21
Triplex Lense

Fig. 1544

CLASS 3

No. 26
Fresnal Glass

Fig. 1545

No. 28
Triplex Lense

Fig. 1546

| Number | | | 26 | |
|---|---|---|---|---|
| Kind of glass | | Fresnal | Triplex | Fresnal | Triplex |
| Size " " in clear | inches | 4 x 7½ | 4 x 7½ | 4½ x 7¾ | 4½ x 7¾ |
| Number of square inches | | 30 | 30 | 35 | 35 |
| Price, galvanized | each | 5.00 | 5.25 | 5.25 | [illegible] |
| " Brass | " | 6.75 | 7.00 | 9.00 | [illegible] |
| " Galv., with hinge bottom, net extra | " | .05 | .05 | .05 | .05 |
| " Brass " " " " | " | [illegible] | [illegible] | [illegible] | .10 |
| " Fitted for electricity, extra | " | [illegible] | [illegible] | .75 | .75 |

Class 2—For boats 26 to 39 feet long
Class 3—For boats 40 to 65 feet long

No. 27

Fig. 1547

## SIDE LIGHTS

### Class 3—For Boats 40 to 65 Feet Long

| Number | | | 25 | 27 |
|---|---|---|---|---|
| Kind of glass | | | Fresnal | Triplex |
| Size " " in clear | | inches | [illegible] | [illegible] |
| Number of square inches | | | 30 | 30 |
| Price, galvanized | | per pair | 6.75 | 7.00 |
| " Brass | | " | 9.75 | 10.00 |
| " Galvanized, with hinge bottom, net extra | | " | [illegible] | .10 |
| " Brass, with hinge bottom, net extra | | " | [illegible] | .25 |
| " Fitted for electricity, extra | | " | [illegible] | 1.50 |

# MARINE LIGHTS

No. 29—Fresnal Glass

No. 30—Triplex Lense

## STERN OR ANCHOR LIGHTS

**Suitable for Class 2 or 3 Boats**

Fig. 1548

Fig. 1549

| Number | | 29 | 30 |
|---|---|---|---|
| Kind of glass | | Fresnal | Triplex |
| Diameter of glass | inches | 4¾ | 4¾ |
| Height " " | " | 4¼ | 4¼ |
| " " frame | " | 10 | 10 |
| Extreme height | each | 14 | 14 |
| Price, galvanized | " | 3.00 | 3.25 |
| " Polished brass | " | 5.00 | 5.25 |
| " With ruby, green or blue globes, extra | " | 1.50 | 1.50 |

## LITTLE DANDY MOTOR BOAT LIGHTS, No. 31

**Suitable for Small Motor Boats**

Fig. 1550

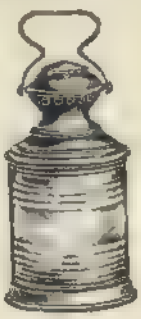


Fig. 1551

Fig. 1552

| | | | | |
|---|---|---|---|---|
| Kind of glass | | Fresnal | Fresnal | Triplex |
| Size of glass in each | inches | 3¼x5 | 3¼x5 | 3¼x5 |
| " " " | " | 3½ | 3½ | 3½ |
| Height | " | 7 | 7 | 7 |
| Price, galvanized | each | 2.50 | 3.00 | 3.25 |
| " Brass | " | 3.00 | 4.00 | 4.25 |

These Dandy motor boat lights are furnished with hinge or screw mounts, as ordered.

# MARINE LIGHTS

## SIDE LIGHTS

No. 33
Fresnal Glass

Fig. 1553

No. 34
Triplex Lenses

Fig. 1554

### No. 33 SIDE LIGHTS Fresnal Glass

| Number | | *1 | *2 | 8 | 9 | 10 | 11 | 11 |
|---|---|---|---|---|---|---|---|---|
| Width of glass | inches | 4½ | 5 | 5 | | 6¾ | 7¼ | 10 |
| Height " | " | 4½ | 5½ | 6¾ | 5¾ | 6¾ | 7¾ | 7½ |
| " " frame | " | 6¾ | 7 | 8 | 9 | 11 | 11½ | 12 |
| Extreme height | " | 12¼ | 13¼ | 2 | 15 | 17 | 18 | 19 |
| Width of base | " | 7 | 7 | 8 | 10 | 10 | 11 | 12 |
| Price, galvanized | per pair | 6 50 | 6 75 | 7 00 | 9 00 | 9 50 | 13 50 | 21 00 |
| " Brass | " | 9 50 | 9 75 | 08 | 16 00 | 18 00 | 23 00 | 30 00 |

### No. 34 SIDE LIGHTS Triplex Lenses

| Number | | *105 | *107 | 108 | 109 | 110 | 111 | 111 |
|---|---|---|---|---|---|---|---|---|
| Width of glass | inches | 4½ | 5½ | 5 | 5 | 6¾ | 7¼ | 10 |
| Height " | " | 4½ | 5½ | 6¼ | 5¾ | 6¾ | 7¾ | 7½ |
| " " frame | " | 6¾ | 7 | 8¼ | 9 | 11 | 11½ | 12 |
| Extreme height | " | 12¼ | 13¼ | 2 | 15 | 17 | 18 | 19 |
| Width of base | " | 7 | 7 | 8¼ | 10 | 10 | 11 | 12 |
| Price, galvanized | per pair | 6 75 | 7 00 | 7 25 | 9 25 | 11 00 | 13 50 | 22 00 |
| " Brass | " | 9 75 | 10 00 | 11 25 | 16 50 | 18 50 | 24 00 | 33 00 |

*Regularly furnished with spring fount. Flange bottom charged for extra.

# MARINE LIGHTS

## BOW LIGHTS

No. 35
Fresnal Glass

Fig. 1555

No. 36
Triplex Lenses

Fig. 1556

### No. 35 BOW LIGHTS Fresnal Glass

| Number | | * 2 | *13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|
| Width of glass | inches | 4¾ | 5 | 6 | 6¾ | 9 |
| Height " " | " | 4¾ | 5 | 6 | 6¾ | 8 |
| " " frame | " | 6½ | 7½ | 10 | 10 | 12½ |
| Extreme height | " | 10 | 11 | 15 | 15 | 21 |
| Width of base | " | 5¼ | 5¾ | 9½ | 9½ | 10½ |
| Price, galvanized | each | 5 00 | 5 75 | 5.75 | 6 00 | 12.00 |
| " Brass | " | 6 75 | 9 00 | 9.50 | 10.00 | 16 00 |

### No. 36 BOW LIGHTS—Triplex Lenses

| Number | | *112 | *113 | 114 | 115 | 116 |
|---|---|---|---|---|---|---|
| Width of glass | inches | 4¾ | 5 | 6 | 6¾ | 9 |
| Height " " | " | 4¾ | 5 | 6 | 6¾ | 8 |
| " " frame | " | 6½ | 7½ | 10 | 10 | 12½ |
| Extreme height | " | 10 | 11 | 15 | 15 | 21 |
| Width of base | " | 5¼ | 5¾ | 9½ | 9½ | 10½ |
| Price, galvanized | each | 5.15 | 5 40 | 6 00 | 6 50 | 12.50 |
| " Brass | " | 6.90 | 9 15 | 10.00 | 10 50 | 16.50 |

*Regularly furnished with spring fount. Hinge bottom charged extra.

# MARINE LIGHTS

## ANCHOR LIGHTS

No. 39
Fresnal Glass

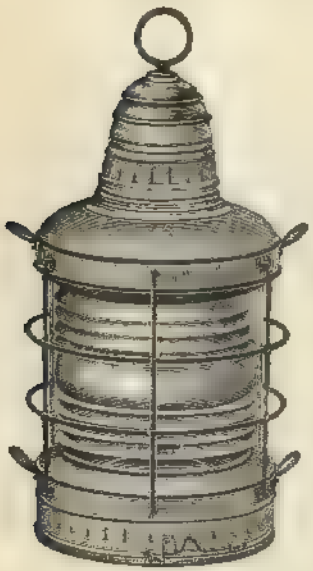


Fig. 1557

No. 40
Triplex Lense

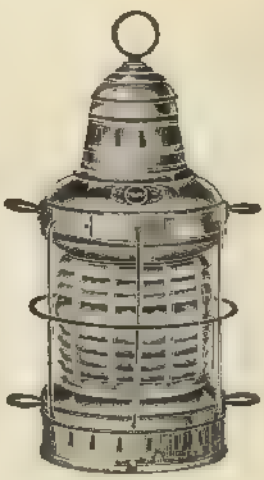


Fig. 1558

### No. 39 ANCHOR LIGHTS—Fresnal Glass

| Number | Stern | 21 | 21½ | 22 | 22½ | 23 |
|---|---|---|---|---|---|---|
| Diameter of glass.. inches | 3 | 4¾ | 5¾ | 6 | 6 | 8½ |
| Height " " " | 3½ | 4¼ | 5 | 5¾ | 6½ | 7 |
| " " frame " | 8¾ | 10 | 11 | 12 | 12½ | 14 |
| Extreme height " | 11 | 14 | 15 | 18 | 19 | 23 |
| Price, galvanized each | 2.50 | 3.00 | 5.00 | 5.25 | 6.00 | 10.50 |
| " Brass " | 4.00 | 5.00 | 7.00 | 10.00 | 10.50 | 15.00 |
| " Galv., with ruby or green globes " | 3.50 | 4.50 | | 7.00 | 10.50 | 13.50 |
| " Brass " " " " " " | 5.00 | 6.50 | | 11.75 | 15.00 | 18.00 |

### No. 40 ANCHOR LIGHTS—Triplex Lenses

| Number | Stern | 12 | 21½ | 122 | 122½ | 123 |
|---|---|---|---|---|---|---|
| Diameter of glass inches | 3 | 4¾ | 5¾ | 6 | 6 | 8½ |
| Height " " " | 3½ | 4¼ | 5 | 5¾ | 6½ | 7 |
| " " frame " | 8¾ | 10 | 13 | 12 | 12½ | 14 |
| Extreme height " | 11 | 14 | 15 | 18 | 19 | 23 |
| Price, galvanized each | 3.75 | 3.25 | 5.00 | 5.65 | 6.50 | 11.00 |
| " Brass " | 4.25 | 5.25 | 7.00 | 10.40 | 11.00 | 15.50 |
| " Galv., with ruby or green globes " | 3.75 | 4.75 | | 7.00 | 10.50 | 14.00 |
| " Brass " " " " " | 5.25 | 6.75 | | 12.15 | 15.50 | 18.50 |

# TINNERS' MACHINES

## PECK, STOW & WILCOX

### HULL ACME SQUARING SHEARS

Japanned, solid cast iron frame securely bolted; tempered tool steel blade, arranged with top and side extension tables, side tables being so hinged that they can be folded; improved back and front gauges, designed for cutting metal but are adapted to a variety of uses and special work, as cutting leather, cloth, paper, hard and soft rubber, etc.

| | Each |
|---|---|
| No. 730 31-inch blade; will cut 18-gauge iron; weight 435 lbs. | $ 80.00 |
| No 736—37-inch blade; will cut 18-gauge iron; weight 700 lbs. | 136.00 |

### SHEARS AND PUNCHES

#### COMBINED

Japanned, wrought iron body; polished steel blade

| | Each |
|---|---|
| No. 1—4½-inch cut; will punch ⅜-inch iron, and to the center of a 5¼-inch circle; complete with four punches; sizes ⅛, 7/16, ¼ and 5/16 inch; weight 100 lbs. | $32 00 |

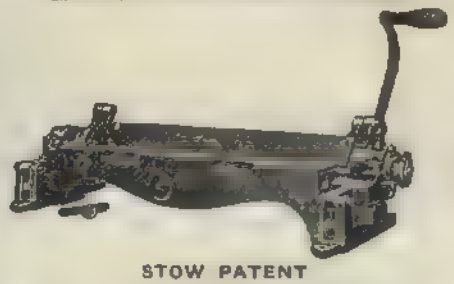
### PORTABLE LEVER PUNCHES

#### IMPROVED

Malleable iron frame; polished steel handles; polished steel dies and punches; the toggle movement is powerful and it works easily and rapidly; made to combine light weight with strength, the gauges, both back and side, are easily adjusted.

| | Each |
|---|---|
| No. 10—Depth of throat 1⅛ inches; length over all 17 inches; complete with three dies and three punches, sizes ⅛, 7/16 and ⅜ inch; adapted to metals up to 20 gauge; weight 10 lbs. | $13 00 |

### ADJUSTABLE BAR FOLDERS



#### STOW PATENT

Japanned, solid cast iron body, with solid steel gearings and tempered steel blades.

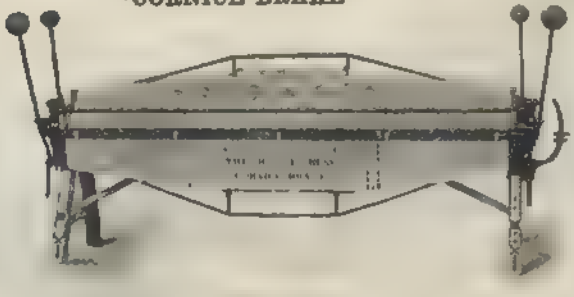
Gauge is moved by a hand wheel in the center and fastened by a set screw in front and at left of the machine.

| | Each |
|---|---|
| No. 154 Length 30 inches; will turn locks ⅛ to 1 inch wide; adapted to metals up to 22 gauge; weight 155 lbs. | $66 00 |

Gauge is moved by thumb screw at right hand end of machine and fastened in center by set screw.

| | Each |
|---|---|
| No. 52 Length 20 inches; will turn locks ⅛ to 1 inch wide; adapted to metals up to 22 gauge; weight 100 lbs. | $53 00 |

### *CORNICE BRAKE



#### STANDARD DOUBLE TRUSS

This machine will bend or form sheet metal to almost any angle or curve or any combination of angles or curves, at any distance from the edge, either lengthways or crossways. Will bend No. 22 sheet metal and lighter the full length of machine.

Each brake is supplied with six half-round formers ⅛ inch to 2½ inches in diameter, with the necessary friction clamps to hold same in place, for forming circular bends.

| Nos. | 8 | 10 |
|---|---|---|
| Length of bending edge, feet | 8 1/12 | 10 1/12 |
| Weight on skids, pounds | 875 | 1200 |
| Each | $115 00 | 145 00 |
| | 195 50 | 246 50 |

### SHEET IRON FOLDERS

#### WRIGHT PATENT

Japanned, cast iron body; tempered steel blade and steel lever handle.

| | Each |
|---|---|
| No. 1—Length 32 inches; adapted to metals up to 22 gauge; adjustable gauge to form locks 3/16 and ¼ inch wide; weight 80 lbs. | $23.00 |

### STOVE PIPE FORMERS

#### STOW PATENT

Japanned, cast iron frame; turned steel rolls

| Nos. | 1 | 2 |
|---|---|---|
| Length roll inches | 30 | 30 |
| Diameter roll, inches | 2 | 1¾ |
| Weight, lbs. | 140 | 115 |
| Each | $30 00 | 27 00 |

NOTE—Goods marked thus (*) are for factory shipment only

# TINNERS' MACHINES

## PECK, STOW & WILCOX

Japanned, solid cast iron frames; polished steel gearings and rolling faces, with adjustable boxes and adjusting screws; complete with wood handle and malleable iron crank; by a patented arrangement the upper journal boxes are so constructed that the faces readily pass over seams without straining the machine or injuring the work; each machine sent with improved standard, for use in attaching to bench, all parts are interchangeable; can be used on any material up to 24 gauge.

### WIRING

#### STOW ENCASED

These machines follow the turning machine; they are intended for rolling sheet metal tightly around wire after its seat has been prepared by the turning machine; cylindrical or straight work can be wired with these machines. Each

No. 526—With standard; diameter of faces 3 inches, length over all 9 inches; height 10½ inches; width 5¾ inches, weight 30 lbs... $26.00

### BURRING

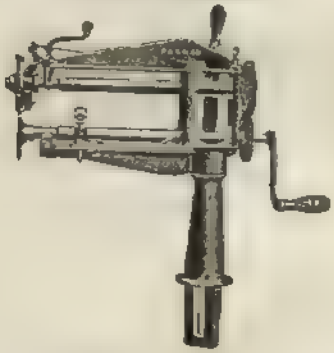
#### STOW ENCASED

These machines are used for creasing and edging rims and covers for pails, etc., and for preparing circular edges of bottoms and bodies of vessels for double seaming. Each

No. 579—Small; with standard; with one extra upper face; diameter of faces 1½ inches; length over all 7 inches, height 7 inches; width 3½ inches; weight 21 lbs. $18 50

No. 580—Large; with standard, and one extra upper face; diameter of faces 2½ inches; length over all 8½ inches; height 8½ inches; width 3¾ inches; weight 28 lbs. 19 00

### DOUBLE SEAMING

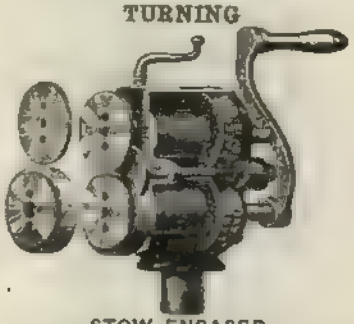


#### MOORE PATENT

These machines are the only ones that will double seam small coffee pots, etc.; the size of the lower face determines the smallest size bottom that can be double-seamed. Each

No. 645—With stand; length 13 inches; diameter of face 4 inches; weight 45 lbs. $32.00

### TURNING



#### STOW ENCASED

These machines are intended for turning or curving the tops of vessels to receive wire; the wire is first formed into shape of vessel and then inserted in groove made by the turning machine; wiring machine closes metal completely around wire. Each

No. 545—Small; with standard and one extra set of faces for Nos. 7 and 9 wire; diameter of faces 2⅛ inches; length over all 8½ inches; height 8½ inches; width 3½ inches; weight 23 lbs. $21 00

No. 546—Large; with standard and one extra set of faces for Nos. 5 and 7 wire; diameter of faces 3 inches; length over all 9 inches; height 10 inches; width 4 inches; weight 28 lbs. 21 50

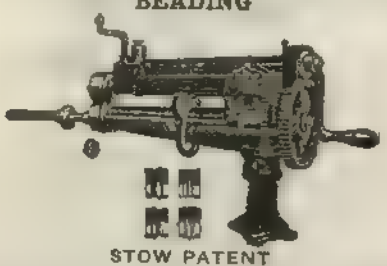
### SETTING DOWN

#### COLUMBIAN

These machines follow the burring machines; the burr made at right angles on body of vessel is sprung into burr of same width turned beyond a right angle on the bottom; the machine presses the edge of bottom into the flange of the body, after which the work is ready for the double seaming. Each

No. 565—With standard; for ⅛-inch seams; diameter of faces 3 inches; length over all 9 inches; height over all 7½ inches; width 4½ inches; weight 21 lbs. $18.00

### BEADING

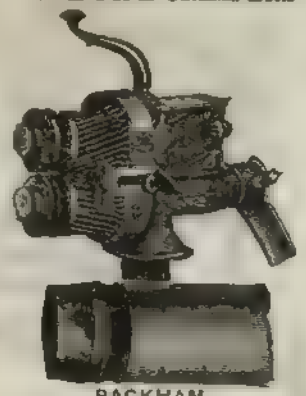


#### STOW PATENT

These machines are intended for stiffening and ornamenting pipe and bodies of pails, cans, boilers, buckets, etc. Each

No. 4—With stand; 6-inch throat; complete with four pairs of rollers and rotary stand; length over all 15 inches; height 8½ inches; width 3½ inches; weight 50 lbs. $36.00

### STOVE PIPE CRIMPERS

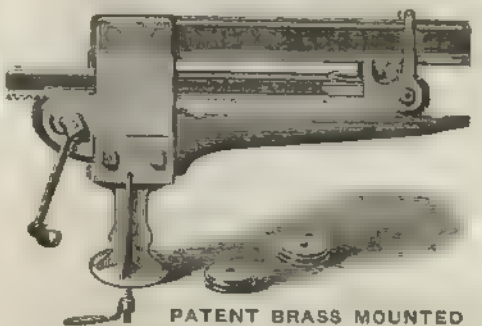


#### PACKHAM

These machines are intended for crimping and beading stove pipe. Each

No. PC—With standard; spiral, beading and crimping rolls; length over all 10 inches; height 10¾ inches; width 5½ inches; weight 27 lbs. $13.00

### GROOVING

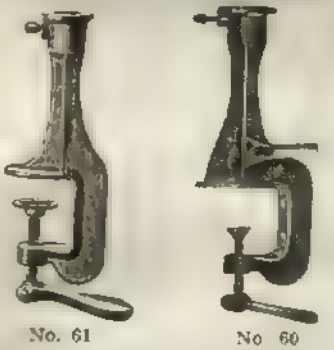


#### PATENT BRASS MOUNTED

These machines are intended for grooving the seams on bodies of tin cans, pails, boilers, pans, etc. Each

No. 01—With stand; for iron 20 inches wide; with three groove roll, sizes ⅛, ¼ and ⅜ inch; length over all 32½ inches; height over all 11½ inches; width 6¾ inches; weight 78 lbs. $26 00

### MACHINE STANDARDS



No. 61 No. 60

#### FOR ENCASED MACHINES

No. 61—Improved; small machine standard; size of clamping jaw 3½ inches; length over all 17½ inches; weight 10 lbs. $ 2.00

No. 60—Improved; wiring machine standards; size of clamping jaw 3½ inches; length over all 18 inches; weight 10 lbs. 2 00

# TINNERS' TOOLS

## PECK, STOW & WILCOX

### GUTTER BEADERS

Japanned, solid cast steel, with ground edges; securely bolted; iron bottom; can be used on material up to 24 gauge.

| | Each |
|---|---|
| No. 02—Length 30 inches; for ⅝-inch rod; without rod; weight 22½ lbs. | $ 5 50 |

### GUTTER RODS

Polished steel, malleable iron crank with wood handle

| | Each |
|---|---|
| No. 02—Length 30 inches; diameter ⅝ inch; weight 4¼ lbs. | $ 5 00 |

### TONGS

**GUTTER**

Riveted steel jaws, japanned malleable iron handles, can be used on material up to 22 gauge.

| | Each |
|---|---|
| No. GT—Length 37 inches, width of clamps 17 inches; weight per pair 9½ lbs. | $ 8 00 |

**COMMON ROOFING**

Steel clamps, japanned malleable iron handles

| No. 7—Turn seams, Inches | ½ | ¾ | 1 | 1¼ | 1½ |
|---|---|---|---|---|---|
| Weight, lbs | 7 | 7 | 7¼ | 7½ | 8¼ |
| Each | $5 00 | 5 00 | 5 00 | 5 00 | 5.00 |

### STAKES

Solid cast steel, with polished tempered faces

**CONDUCTOR**

| | Each |
|---|---|
| No. 71 Length of large end 15 inches, of small end 11½ inches; height over all 10¼ inches; weight 30 lbs. | $ 7.00 |

**CANDLE MOULD**

| | Each |
|---|---|
| No. 56 Small end 18 inches horn end 8½ inches; height over all 10¼ inches; weight 6½ lbs. | $ 4.40 |

**BLOW HORN**

| | Each |
|---|---|
| No. 25 Large end 9 inches, small round end 17½ inches; height over all 11 inches; weight 19 lbs | $ 8.00 |

**DOUBLE SEAMING**

| | Each |
|---|---|
| No. 21 Large end 17 inches; small end 12 inches, height over all 17 inches, weight 24 lbs | $13 00 |

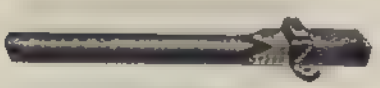
**HATCHET**

| | Each |
|---|---|
| No. 41 Length of blade 16 inches; height over all 15½ inches weight 14 lbs | $ 8.00 |

**SQUARE**

| | Each |
|---|---|
| No. 36—4½x2⅝ inch face, height over all 15 inches; weight 11 lbs | $ 5 00 |

### MANDRELS



**STOVE PIPE**

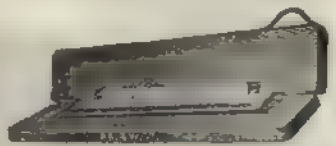
| | Each |
|---|---|
| No. 1—Adams, cast iron unpolished length 36 inches; width 4½ inches, weight 38 lbs. | $ 5.50 |
| No. 2—Adams; with punching die, otherwise same as above | 8 00 |

**HOLLOW**

| | Each |
|---|---|
| No. 11 -Entire length 40 inches; length of oval part 31 inches, length of flat part 9 inches, 6 inches wide; weight 45 lbs. | $ 9 80 |

Packed, one in package.

### ROOFING FOLDERS



**IMPROVED WOOD**

Made of solid oak wood, natural finish, with steel edge and iron handle, polished steel clamping blade, securely screwed can be used on any material up to 28 gauge.

| | Each |
|---|---|
| No. 1—Length 30 inches; with fold regulating gauge; weight 15½ lbs. | $ 8.00 |

# TINNERS' TOOLS

## HAND SNIPS

### HOUSEHOLD

High grade cast steel; steel laid polished blades; black japanned handles

No. 111 2¾-inch cut; length 10 inches; weight ⅞ lb. ..... Each $ 1 00

Packed, six pairs in box.

### STAR

Cast iron; ground blades; black japanned handles

No. 1—3-inch cut; length 12 inches; weight 1¼ lbs. ..... Each $ 0.60

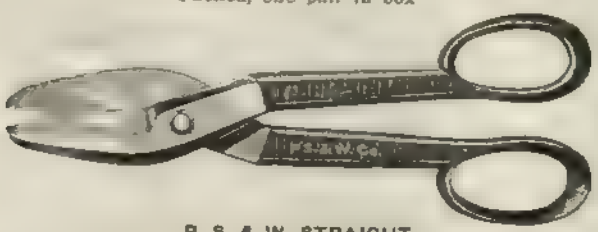
Packed, six pairs in box.

### BERLIN

Forged steel; polished blades; green japanned handles.

| Nos. | 52 | 50 | 49 | 48 |
|---|---|---|---|---|
| Cut, inches | 2½ | 3 | 3½ | 3¾ |
| Length, inches | 9¾ | 11¾ | 12¾ | 14 |
| Weight, lbs | ¾ | 1½ | 1¾ | 2¼ |
| Each | $1 20 | 1 50 | 1.60 | 2 10 |

Packed, one pair in box



### P. S. & W. STRAIGHT

Forged from best Norway iron; steel laid, polished blades; black japanned handles.

For Right Hand, Left Hand Cut

| Nos. | 10L | 9L | 8L | 7L | 6½L |
|---|---|---|---|---|---|
| Cut, inches | 2½ | 3 | 3½ | 4 | 4¼ |
| Length, inches | 11 | 11¾ | 13½ | 14 | 15¾ |
| Weight, lbs | 1 | 1½ | 2 | 2¼ | 3¼ |
| Each | $1.90 | 2.10 | 2 70 | 3 40 | 4 00 |

For Right Hand, Right Hand Cut

| Nos. | 9R | 8R |
|---|---|---|
| Cut, inches | 3 | 3½ |
| Length, inches | 11¾ | 13½ |
| Weight, lbs. | 1½ | 2 |
| Each | $2 10 | 2 70 |

Packed, one pair in envelope.

### LYON

Rounding steel polished blades, very sharp pointed; forged, brown japanned handles

| Nos. | 190 | 180 | 170 |
|---|---|---|---|
| Cut, inches | 2½ | 3 | 3½ |
| Length, inches | 12½ | 13 | 14 |
| Weight, lbs. | 1¼ | 2 | 2¾ |
| Each | $2.50 | 3.00 | 4.00 |

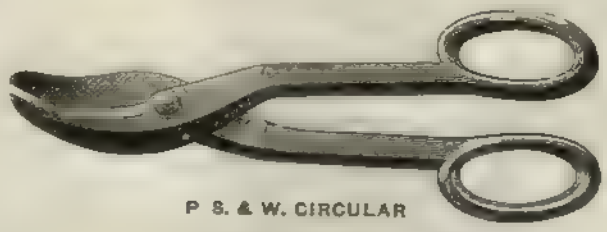
Packed, one pair in box

### SEARIGHT COMPOUND LEVER

Drop forged steel, highly tempered throughout; polished blades; black japanned handles

| Nos. | 08 | 010 | 012 | 014 |
|---|---|---|---|---|
| Cut, inches | 1⅝ | 2⅜ | 2¾ | 3⅜ |
| Length, inches | 8 | 10½ | 12 | 14 |
| Weight, lbs. | 1 | 1⅛ | 1⅜ | 2¾ |
| Each | $2 30 | 3.50 | 4.70 | 5.50 |

Packed, one pair in box

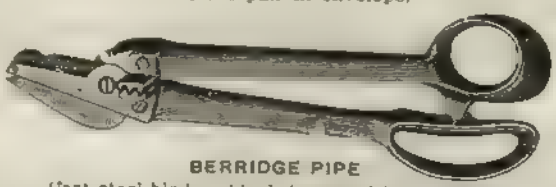


### P. S. & W. CIRCULAR

Forged from best Norway iron; steel laid, polished blades; black japanned handles.

| Nos. | 10C | 9C | 8C | 7C |
|---|---|---|---|---|
| Cut, inches | 2½ | 3¼ | 3¾ | 4 |
| Length, inches | 11 | 12 | 13¼ | 14¼ |
| Weight, lbs. | 1 | 1½ | 2 | 2½ |
| Each | $3.10 | 3.50 | 4 20 | 5 00 |

Packed, one pair in envelope.

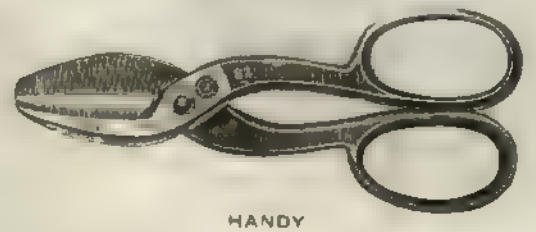


### BERRIDGE PIPE

Cast steel blades, black japanned iron handles

No. 2—2-inch cut, length 13 inches for cutting and crimping stove pipe; adapted for round and circular work, weight 3¼ lbs Each $ 4 50

Packed, one in box

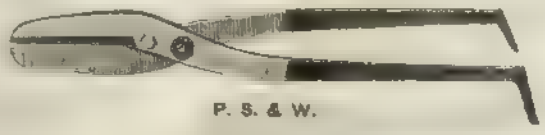


### HANDY

Solid forged steel; polished blades; polished and blued handles, especially adapted to automobile work

No. 82 2-inch cut, length 7 inches, weight 9 oz Each $ 1 00

## BENCH SHEARS



### P. S. & W.

Right Hand Cut

Forged from best Norway iron; steel laid, polished blades; black japanned handles

| Nos. | 5 | 4 | 3 |
|---|---|---|---|
| Cut, inches | 7 | 8 | 8¾ |
| Length, inches | 25 | 27 | 30 |
| Weight, lbs | 9¼ | 12¾ | 13¼ |
| Each | $6.50 | 8.00 | 9.60 |

# TINNERS' TOOLS

## BENCH PLATES

Solid cast iron, japanned, planed face, with socket holes to receive all stakes, formers, etc.

| | Each |
|---|---|
| No. 2—Size 30x8 inches; ⅝-inch thick; weight 37 lbs. | $ 6.80 |

## END FORMERS

The Tool.

The Work.

### EAVES TROUGH

Made of cast iron; for closing end of eaves trough and corrugations as shown in illustrations.

| | Each |
|---|---|
| No. 5—Bishop; size 5 inches; weight 4 lbs | $ 1 50 |

## HAMMERS

### RIVETING

High grade solid cast steel; polished head; hardwood handle

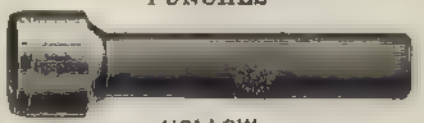
| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Size of face, inches | 1⅛ | 1 | ⅞ | ¾ |
| Length of handle, inches | 13 | 11½ | 11¾ | 11½ |
| Weight, lbs. | 1⅛ | 1⅛ | ⅞ | ⅝ |
| Each | $1.10 | .90 | 80 | .60 |

### SETTING

High grade solid cast steel; polished head; hardwood handle.

| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Size of face, inches | 1⅛ | 1 | ⅞ | ¾ |
| Length of handle, inches | 13 | 11½ | 11¾ | 11½ |
| Weight, lbs. | 1⅛ | 1⅛ | ⅞ | ⅝ |
| Each | $1.10 | .90 | .80 | .60 |

## PUNCHES



### HOLLOW

Forged steel, japanned, with polished edge, tempered and sharpened

| Nos | 1HP | 2HP | 3HP | 4HP | 5HP | 6HP | 7HP | 8HP | 9HP | 10HP |
|---|---|---|---|---|---|---|---|---|---|---|
| Size, inches | ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 2 |
| Length, inches | 5½ | 5⅝ | 5½ | 5½ | 5½ | 5½ | 6¼ | 6 | 6 | 6½ |
| Weight, lbs. | ¼ | ¼ | ¼ | ⅝ | ⅝ | ½ | ¾ | ¾ | ¾ | 1½ |
| Each | $0.40 | .60 | .70 | .86 | 1.10 | 1.20 | 1 50 | 1.80 | 2.00 | 3.20 |

## RIVET SETS AND HEADERS

### TINNERS'

Cast steel, gun metal finish; highly tempered.

| Nos. | 00 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|
| For iron rivets, lbs. | 14 | 10, 12 | 8 | 6 | 4, 5 | 2½, 3 | 1¾, 2 | 1½ | 1¼ | ⅝, ¾ |
| For copper rivets, Nos. | | 5 | 6 | 7 | 8 | 9 | 10, 11 | 12 | 13 | 14 |
| Weight, per dozen, lbs. | 11 | 9 | 7½ | 6¾ | 6 | 5 | 3¾ | 3 | 2¾ | 2½ |
| Dozen | $9.00 | 9.00 | 7 50 | 7 50 | 6 00 | 6 00 | 4.50 | 4.50 | 4.00 | 4 00 |

Packed, one-half dozen in box.

## GROOVERS

### HAND

Forged steel, japanned, with polished tempered face.

| Nos. | 00 | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|
| Size of groove, inch | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 |
| Length over all, inches | 6 | 5½ | 5½ | 5½ | 6 | 6 | 6 |
| Weight, lbs. | 1⅝ | 1⅛ | 1¼ | 1⅛ | 1 | ⅞ | ¾ |
| Each | $1 10 | 1 10 | 90 | 90 | 70 | 70 | .60 |

Loose

## CHISELS

### WIRE

Forged steel, japanned, polished tempered bit; length 5 inches.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width, inches | ½ | ⅝ | ¾ |
| Weight per dozen, lbs | 1 | 1½ | 3 |
| Dozen | $1 40 | 1 50 | 1 60 |

Packed, one dozen in box.



### LANTERN

Forged steel, japanned, polished sharpened edge.

| | Doz. |
|---|---|
| No. 0—Length 5 inches; width ½ inch; weight per dozen 2 lbs. | $ 1.50 |

Loose.

## PUNCHES

### SOLID

Forged steel, japanned, with polished tempered point; length 6 inches.

| Nos. | 2SP | 3SP | 4SP | 5SP | 6SP |
|---|---|---|---|---|---|
| Diameter point, inches | 1/8 | 6/32 | 5/32 | 4/32 | 3/32 |
| For tinners' rivets, lbs. | 8 | 6 | 4 | 2 | 1 |
| Weight per dozen, lbs. | 2¼ | 2⅛ | 1⅞ | 1½ | 1⅜ |
| Dozen | $1 20 | 1.20 | 1 20 | 1.20 | 1.20 |

Packed, one dozen in box.

### PRICK

Forged steel, japanned, with polished point, tempered and sharpened.

| | Doz. |
|---|---|
| No. 1 Length 5 inches; ⅜-inch square shank; weight per dozen 1½ lbs. | $ 1.80 |

Packed, one dozen in box.

## CHISELS AND PUNCHES

### IN SETS

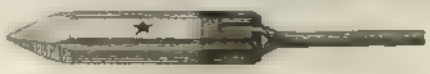
| | Set |
|---|---|
| No. 6—Consists of six articles; one No. 1 wire chisel, one No. 0 lantern chisel, one each Nos. 2, 4 and 6 solid punches and one No. 1 prick punch; weight per set 1½ lbs. | $ 1 10 |

Packed, one set in box.

# TINNERS' TOOLS

## SOLDERING COPPERS

Made of drawn copper bolts of the best quality, drop forged; japanned wrought iron welded shank, without handles.



SHARP POINT

| Nos. | 1 | 1½ | 2 | 2½ | 3 | 4 | 5 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Weight per pair, lbs. | 1 | 1½ | 2 | 2½ | 3 | 4 | 5 | 6 | 8 | 10 |
| Length, inches | 11 | 12 | 13 | 14 | 14½ | 16 | 16 | 17¾ | 19 | 19 |
| Pound | $0.73 | .67 | 65 | .63 | 53 | .53 | .53 | .53 | 53 | .53 |

FLAT POINT

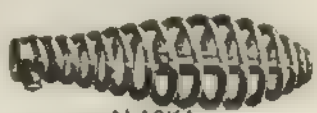
| Nos. | 4 | 5 | 6 |
|---|---|---|---|
| Weight per pair, lbs. | 4 | 5 | 6 |
| Length, inches | 16 | 16 | 17¾ |
| Pound | $0 53 | .53 | .53 |

## SOLDERING COPPER HANDLES

PLAIN WOOD

Made of plain soft wood, natural finish; wire ferrule. Doz.

No. 10—Length 5¾ inches; diameter 1½ inches; weight per dozen 1¾ lbs. ..... $ 0.40



ALASKA

Steel wire, nickel plated; with set screw in shank.

| Nos. | 1 | 2 |
|---|---|---|
| For coppers up to, lbs. | 1 to 3 | 3 to 10 |
| Length, inches | 4½ | 5 |
| Weight per dozen, lbs. | 2 | 4 |
| Dozen | $1.60 | 1.80 |

Packed, one dozen in box

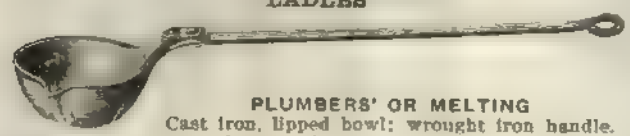
## SOLDERING SETS

HOUSEHOLD Doz. Sets

No. 55—Contains one 10¼-inch soldering copper with hardwood oil finished handle, box of powdered resin, stick of solder and one piece of tin; weight per dozen sets 4 lbs. ..... $ 2.00

Packed, one set in box.

## LADLES



PLUMBERS' OR MELTING

Cast iron, lipped bowl; wrought iron handle.

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Diameter bowl, inches | 2½ | 3 | 3½ | 4 | 4½ | 5 |
| Length, inches | 15 | 16 | 16 | 16½ | 19½ | 20 |
| Weight per dozen, lbs. | 8 | 10 | 12 | 14 | 21 | 26 |
| Dozen | $2.60 | 2.80 | 4.00 | 4.50 | 6.00 | 7 50 |

## STEEL RULES

TINNERS'

Made of hardened tempered steel, nickel plated; one side circumference rule; opposite side table of measures as follows: Liquid measure, flaring ¼ pint to 5 gallons; dry measure, flaring ¼ bushel to 2 bushels; cans, pitch top 1 gallon to 10 gallons; dry measure, straight 1 quart to 3 bushels. Each

No. 95—Length 36 inches; width 1¼ inches, 16-gauge; weight ⅞ lb. ..... $ 5.00

## WIRE GAUGES

ENGLISH STANDARD

Polished cast steel; for steel, brass or copper wire and sheet metal.

OBLONG Each

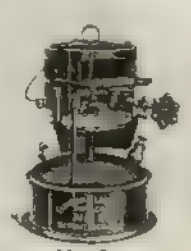
No. 4—Small size; length 3⅞ inches; width 1 inch; numbers run from 1 to 26; weight 1 oz. ..... $ 2 00

ROUND Each

No. 2—Small size; diameter 2⅛ inches; numbers run from 6 to 36; weight 2 oz. ..... $ 2 00

## FIRE POTS

No. 1



No. 5

FOR CHARCOAL

Made of heavy black iron; strapped band rest; removable ash pan; slide door for soldering coppers; wire bail.

Each

No. 1—Wyeth; height 22 inches; base 9x10x3 inches; drum 7¾x 12¼ inches; diameter of pipe 3 inches; weight 12 lbs. ..... $ 3.50

Loose.

FOR GASOLINE

Heavy galvanized iron tank, lacquered; brass air pump in tank; brass filler plug; steel, japanned, removable hood and cover; cast iron metal pot with wire bail; can heat kettle of lead and pair of soldering irons at one time; consumes one gallon gasoline for eight hours steady work. Each

No. 5—Capacity 5 pints; height 12 inches; diameter of base 8½ inches; weight 12½ lbs. ..... $ 9.00

Packed one in box.

EXTRA METAL POTS

Cast iron, with wire bail Each

No. 5MP—Diameter 4½ inches; weight 2½ lbs. ..... $ 0.60

Loose

## SOLDERING FURNACES

FOR GASOLINE

Galvanized steel tank; aluminum finish, size 5x12 inches; top and bottom double seamed on; brass generator with ⅝ inch opening; brass pump, size 1x10 inches; refined iron base, japanned size 7¾x17 inches. Each

No. 25—Lundy double blast; capacity one gallon; height 15½ inches; weight 27 lbs. ..... $14.50

Packed, one in crate.

## SOLDERING FURNACES

FOR GASOLINE

Galvanized steel reservoir; cast iron hood; arched bottoms, heavily reinforced; rubber air bulb, improved handle generator and drip cup

| | Each |
|---|---|
| No. 3—Gem; capacity 3 quarts; height over all 15 inches; length 20½ inches, weight 32½ lbs. | $12.50 |

Packed, one in crate.

EXTRA BULBS

| | Each |
|---|---|
| No. 21—Good quality rubber; weight ½ lb | $ 1.20 |

FOR GASOLINE

Galvanized steel reservoir contains air chamber fitted with improved brass ja acted pump providing ur space for pumping, and preventing accidents from overfilled tanks galvanized steel base, with receptacle for carrying cold soldering copper burners of strips of corrugated planished steel giving powerful double blast at all times

| | Each |
|---|---|
| No. 600—Standard; capacity one gallon; base 6½x18 inches; height over all 14½ inches, weight 23 lbs | $12 00 |

Packed, one in crate.

## BLOW TORCHES

FOR GASOLINE

Brass, nickel plated body and neck, brass burner screwed to neck corrugated neck which largely increases the heating surface and creates a greater pressure than could otherwise be produced; it is entirely automatic and burns two hours on one filling

| | Doz. |
|---|---|
| No. 1—Imp; capacity ½ pint; size of fount 4⅜x1¾ inches; weight ¼ lb. | $24.00 |

Packed, one in carton, one-half dozen in wood box.

Heavy drawn seamless brass top and body heavy brass, soldered concave bottom with cast brass filler plug, cast brass burner cast iron drip cup and pipe screwed to tank pump in handle with check valve soldered to body wood handle on needle valve

Without Soldering Iron Attachment

| | Each |
|---|---|
| No. 49—Capacity 1 quart; height 10 inches; weight 5 lbs. | $ 4.50 |

Packed, one in wood box

With Soldering Iron Attachment

| | Each |
|---|---|
| No. 50—Capacity one quart; height 11 inches; weight 5¼ lbs. | $ 5 00 |

Packed, one in wood box

No. 16

Heavy drawn seamless brass top and body; heavy brass soldered concave bottom with cast brass filler plug, cast brass burner; cast iron drip cup and pipe screwed to tank; pump in handle with check valve, soldered to body; wood handle on needle valve.

| | Each |
|---|---|
| No. 16—Capacity one pint; height 8 inches; weight 3⅛ lbs. | $ 6 00 |
| No. 15 Capacity one quart; height 9¼ inches, weight 5 lbs | 7 00 |

No. 31

No. 32

Heavy drawn seamless brass top and body heavy brass, soldered concave bottom with cast brass filler plug, cast brass burner, cast iron drip cup and pipe, screwed to tank; pump in tank with check valve, cast iron grip on needle valve.

| Without Soldering Iron Attachment | Each |
|---|---|
| No. 31—Capacity one quart; height 9¾ inches; weight 5 lbs. | $ 7.50 |
| **With Soldering Iron Attachment.** | **Each** |
| No. 32 Capacity one quart height 11½ inches weight 5¼ lbs | $ 8 00 |

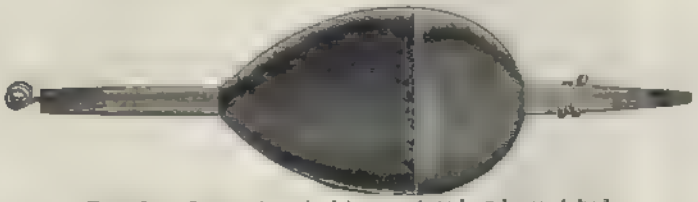
Packed, one in wood box.

# FISHING FLOATS

Egg shaped; wooden; adjustable; spring tempered wire spirals; painted and varnished.

| No. ST25F—Size, inches | 1½ | 2 | 2½ |
|---|---|---|---|
| Weight per gross, lbs. | 4¼ | 5¾ | 8 |
| Gross | $2.70 | 3.40 | 4.20 |

Packed, one-quarter gross in box.



Egg shaped; wood; spiral top; painted and varnished.

| No. ST27F—Size, inches | 1¾ | 2 | 2¼ | 2½ |
|---|---|---|---|---|
| Weight per gross, lbs. | 5½ | 6 | 6½ | 7 |
| Gross | $3.30 | 3.60 | 4.50 | 5.60 |

Packed, one-twelfth gross in box.

Ball; unpainted cork; with wooden stick.

| No. ST24F—Size, inches | 1⅛ | 1¼ | 1⅜ |
|---|---|---|---|
| Weight per gross, lbs. | 1⅛ | 1⅝ | 2 |
| Gross | $4.50 | 5.50 | 6.00 |

Packed, one-twelfth gross in box.

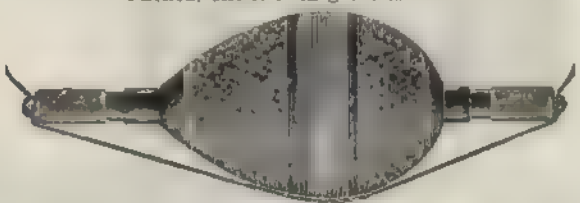
Egg shaped; cork; spiral top; painted and varnished

| No. ST26F—Size, inches | 1¼ | 1⅜ | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 |
|---|---|---|---|---|---|---|---|---|---|
| Wt. per gro., lbs. | 4 | 5 | 5½ | 6 | 7½ | 8 | 11 | 12 | 14 |
| Gross | $5 50 | 7.00 | 9.00 | 11.00 | 14 00 | 17.00 | 21.00 | 48.00 | 66 00 |

Egg shaped; solid cork; patented brass, spiral line fasteners; enameled red and green.

| No. ST211F—Size, inches | 1½ | 1¾ | 2 | 2½ | 3 |
|---|---|---|---|---|---|
| Weight per gross, lbs. | 4¼ | 5 | 5½ | 7½ | 11¼ |
| Gross | $10.00 | 10.80 | 12.50 | 19.00 | 25.40 |

Packed, one-twelfth gross in box.



Egg shaped; red fields; hollow cork; varnished; fancy stripe; patent adjustable spring cap ends for line.

| No. ST31F—Size, inches | 2 | 2½ | 3 |
|---|---|---|---|
| Weight per gross, lbs. | 5 | 7 | 10 |
| Gross | $18.00 | 24.00 | 30.00 |

Packed, one-twelfth gross in box.

Egg shaped; unpainted cork; varnished; fancy stripe spiral top.

| No. ST33F—Size, inches | 1½ | 2 | 2¼ | 2½ |
|---|---|---|---|---|
| Weight per gross, lbs. | 4¾ | 5 | 6 | 7½ |
| Gross | $10.00 | 12.00 | 15.00 | 18 00 |

Packed, one-twelfth gross in box.

Barrel shaped; wooden; adjustable; spring tempered wire spirals; painted and varnished.

| No. ST28F—Size, inches | 2 | 2½ | 3 | 3½ |
|---|---|---|---|---|
| Weight per gross, lbs. | 2½ | 3 | 4¼ | 6 |
| Gross | $2.50 | 3.50 | 4.00 | 4.50 |

Packed, one-quarter gross in box.

Barrel shaped; cork; spiral top; painted and varnished.

| No. ST29F—Size, inches | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 |
|---|---|---|---|---|---|---|---|
| Weight per gross, lbs. | 2¼ | 2½ | 2½ | 2½ | 3 | 4¼ | 4¼ |
| Gross | $6 00 | 6 80 | 7.50 | 8 00 | 9 00 | 10 00 | 11 00 |

Packed, one-twelfth gross in box.

Barrel shaped; cork, painted; fancy stripe spiral top.

| No. ST32F—Size, inches | 1¾ | 2½ | 3 | 3½ |
|---|---|---|---|---|
| Weight per gross, lbs. | 2½ | 2½ | 4¼ | 4½ |
| Gross | $10.00 | 13.00 | 16.00 | 19.00 |

Packed, one-twelfth gross in box

Barrel shaped; solid cork; patented brass spiral line fasteners; enameled red and green.

| No. ST217F—Size, inches | 1¾ | 2 | 2¼ | 2½ | 3 |
|---|---|---|---|---|---|
| Weight per gross, lbs. | 2½ | 2½ | 3½ | 3 | 4¼ |
| Gross | $10.80 | 11.40 | 12.50 | 14.50 | 19.00 |

Packed, one-twelfth gross in box

Zebra; barrel shaped; cork; wooden pilot; stick top; painted and varnished.

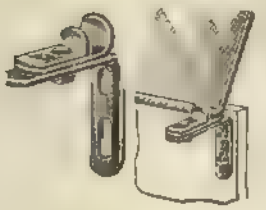
| No. ST30F—Size, inches | 2 | 2½ | 3 | 3½ |
|---|---|---|---|---|
| Weight per gross, lbs. | 2¾ | 3 | 4 | 5½ |
| Gross | $14.40 | 16.00 | 20.00 | 24.00 |

Packed, one-twelfth gross in box.

# ACCESSORIES FOR FORD CARS

ON THIS AND THE FOLLOWING PAGES WE ILLUSTRATE ACCESSORIES MADE ESPECIALLY FOR FORD CARS.

## WINDSHIELD VENTILATORS

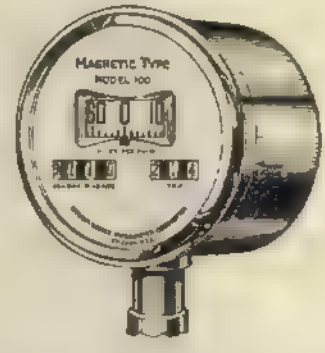


Permits adjustment of windshield, giving perfect ventilation to the car.

Pair

No. M671 Black japanned; weight per pair 1 lb. ..... $ 1.00

## SPEEDOMETERS




Each

No. M100F—Magnetic; rotating speed indicator, 60-mile capacity; 10,000-mile season odometer; 100-mile trip register, can be reset to any tenth of a mile; jeweled bearings; case finished in deep jet; brass trimmings; weight 10 lbs. ..... $12.00 $16.00

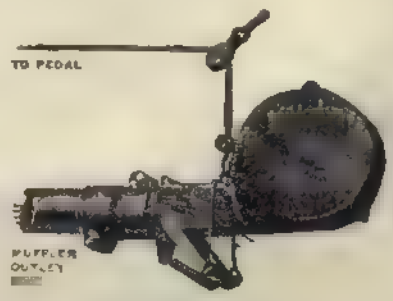
## HORNS

LONG HORN—MODEL F

Mechanical, hand operated; beautiful in design and finish; efficient, reliable and durable.

Each

No. M398 Black and brass; complete with fittings; weight 4½ lbs. ..... $ 9 00

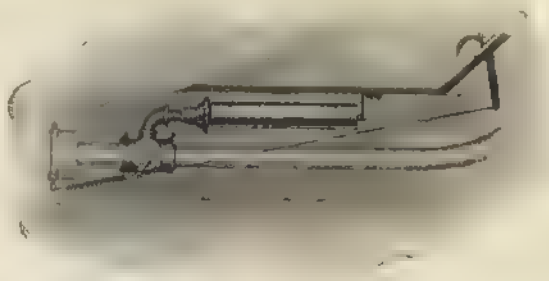



JERICHO

The Jericho motor car signal is made of aluminum; to be attached in rear of muffler, either clamped over outlet pipe or screwed into muffler It is controlled by a pedal, leaving the hands free, and the pedal may be so placed as to permit its operation with the heel, using the same foot for clutch or brake. Complete with pedal, coupling, cable, pulley, etc.

Each

No. M3H—Ford special; weight 1¼ lbs. ..... $ 7.50



BARCO HORN OUTFITS

Chime horn for Ford cars; made of brass with an aluminum core; it gives four harmonious tones combined in one loud warning blast; blown by the exhaust gases of the motor obtained by means of a valve controlled by a foot pedal. It will not clog with soot or oil, and the necessity of cleaning is done away with as it cleans itself

Each

No. M209—Complete with valve, pedal, wire cable, nipple, street elbow and spring; weight 5 lbs. ..... $ 6 00

Packed, one in box

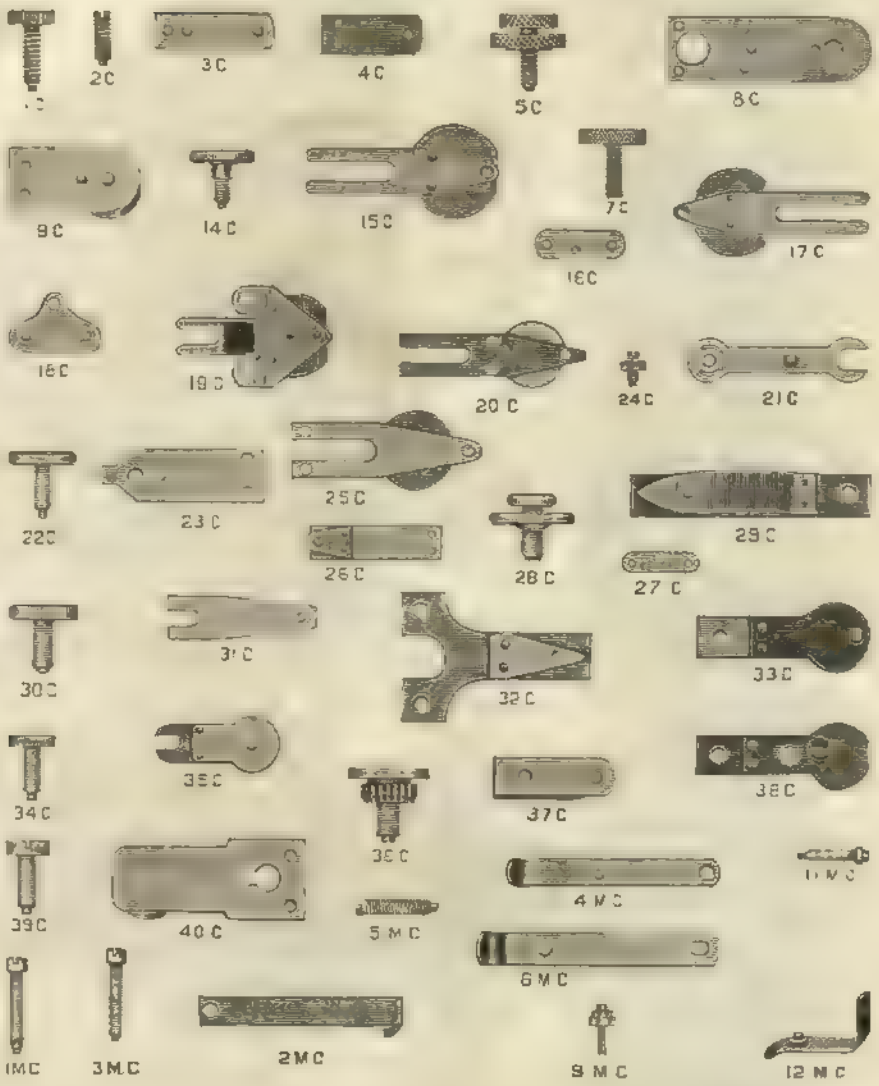
## ROBE RAILS

Each

No. M355—Stationary; polished brass; ⅝x30 inches, weight 1½ lbs. ..... $ 1.40

# *EXTRA PARTS

PRICES QUOTED ON THIS PAGE ARE MANUFACTURERS' LIST PRICES. WRITE US FOR NET PRICES.




## *MOTORCYCLE

| No. | Part | Hundred |
|---|---|---|
| 1MC | Screw to fit Indian | $ 50.00 |
| 2MC | Spring to fit Indian | 60 00 |
| 3MC | Screw to fit Excelsior | 50 00 |
| 4MC | Spring to fit Excelsior | 60 00 |
| 5MC | Screw to fit Harley Dav. | 50 00 |
| 6MC | Spring to fit Harley Dav. | 60.00 |
| 7MC | Screw to fit Yale | 50.00 |
| 8MC | Spring to fit Yale | 60.00 |
| 9MC | Screw (long or short) fits Bosch models D A. or D. A. V., plain or ball bearing | 100.00 |
| 9MCb | Screw (long or short) fits Bosch models, Z. E-1 or Z. E. V | 150 00 |
| 10MC | Breaker lever to fit Bosch | 300 00 |
| 11MC | Breaker screw, fits Herz | 100 00 |
| 12MC | Breaker spring, fits Herz | 100 00 |
| 13MC | Screw to fit M. & M. | 50 00 |
| 14MC | Spring to fit M & M | 60 00 |
| 15MC | Screw to fit Thor | 50 00 |
| 16MC | Spring to fit Thor | 60 00 |

## *SPARK COIL

| No. | Part | Hundred |
|---|---|---|
| 1C | Screw fits old style Atwater Kent | $ 60 00 |
| 2C | Screw, fits new style Atwater Kent | 60 00 |
| 3C | Spring, fits old style Atwater Kent | 50 00 |
| 4C | Spring, fits new style Atwater Kent | 50 00 |
| 5C | Screw, fits Auto Coil | 65.00 |
| 6C | Spring, fits Auto Coil | 60.00 |
| 7C | Screw fits Connecticut | 60.00 |
| 8C | Spring, fits old style Connecticut | 70.00 |
| 9C | Spring, fits new style Connecticut | 60 00 |
| 10C | Screw fits Depose | 70 00 |
| 11C | Spring, fits Depose | 80 00 |
| 12C | Screw, fits Duplex | 65 00 |
| 13C | Spring fits Duplex | 80 00 |
| 14C | Screw, fits (1907) Heinze | 60 00 |
| 15C | Spring, fits (1907) Heinze | 60 00 |
| 16C | Bar fits (1908, '09, '10) Heinze | 40 00 |
| 17C | Spring, fits (1908, '09, '10) Heinze | 60.00 |
| 18C | Bar, fits (1911, 1912) Ford, Heinze | 45.00 |
| 19C | Spring, fits (1911, 1912) Ford, Heinze | 80.00 |
| 20C | Spring, fits Jacobson & Brandow | 70 00 |
| 21C | Bar, fits Jacobson & Brandow | 70 00 |
| 22C | Screw, fits Kingston | 60 00 |
| 23C | Spring, fits Kingston | 50.00 |
| 24C | Screw, fits (1911 "Ford") Kingston | 60.00 |
| 25C | Spring, fits (1911 "Ford") Kingston | 60.00 |
| 26C | Spring, fits Ford Regular, Kingston | $ 60 00 |
| 26C | Spring, fits Ford Master Vib, Kingston | 120 00 |
| 27C | Bar, fits Ford Regular, Kingston | 60.00 |
| 27C | Bar, fits Ford Master Vib, Kingston | 110.00 |
| 28C | Screw, fits La Coste | 65.00 |
| 29C | Spring, fits La Coste | 60.00 |
| 30C | Screw, fits National | 65 00 |
| 31C | Spring, fits National | 50 00 |
| 32C | Spring, fits (Upper) New York | 65 00 |
| 33C | Spring, fits (Lower) New York | 65 00 |
| 34C | Screw, fits Pittsfield | 60 00 |
| 35C | Spring, fits Pittsfield | 70.00 |
| 36C | Screw, fits (Bogart) Splitdorf | 65 00 |
| 37C | Spring, fits (Bogart) Splitdorf | 45.00 |
| 38C | Spring, fits (Bogart) Hmr' Splitdorf | 9 00 |
| 39C | Screw, fits (1904) Splitdorf | 60.00 |
| 40C | Spring, fits (1904) Splitdorf | 80 00 |
| 41C | Bar, fits (Synchronized) Splitdorf | 85.00 |
| 42C | Spring, fits (Synchronized) Splitdorf | 80.00 |
| 43C | Spring, fits Upper Regular K. W. | 70.00 |
| 43C | Spring, fits Upper Master Vib, K. W | 120 00 |
| 44C | Spring, fits Lower Regular K W | 70 00 |
| 44C | Spring, fits Lower Master Vib K W | 120 00 |
| 45C | Screw, fits Briggs & Stratton Igniter | 60 00 |
| 46C | Spring, fits Briggs & Stratton Igniter | 50 00 |
| 47C | Screw, fits B. & S. Master Vibrator | 100 00 |
| 48C | Spring, fits B. & S. Master Vibrator | 100.00 |

NOTE—Goods marked thus (*) are for factory shipment only.

# ACCESSORIES FOR FORD CARS

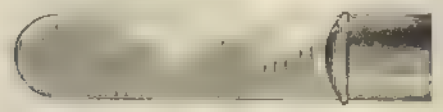
## SEAMLESS HORN BULBS

Made of finest quality mechanically cured rubber, for all types of dragon horns.

Each

No. M224—Size 3½x5 inches; weight ½ lb. .....$ 1.00

## HORN REEDS



The most vital part of a horn; made from specially annealed, non-corrosive metal; accurately adjusted.

Doz

No. M232—Medium size; weight per dozen 1 lb.....$ 4.80

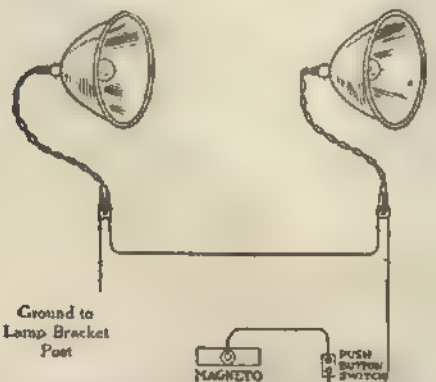
## MUFFLER CUT-OUT OUTFITS

Consists of 1½ inch cut-out valve; locking foot pedal; 4 feet wire cable; 4-inch coiled wire spring and pulley.

Each

No. M254—For Ford cars; weight 2 lbs. .....$1.50
Packed, one in box

## FORD LIGHTING OUTFIT




Model T, Ford Lighting Outfit; adapted to Ford cars; consists of one pair of parabolic reflectors, heavily silver plated and highly pol-ed; two 6-volt, 12-candle power Tungsten lamps; candelabra or ' base connections; one rubber base switch with detachable e with wire and connectors; easily and quickly installed.

Se'

'ctor; weight 1¾ lbs.....$ 5.00
' weight 2½ lbs ..... 5.00
' set in cardboard box.

## ELECTRIC HEADLIGHT ASSEMBLIES

For Ford cars; operated from the magneto; consists of two bullet style head lights; two 12-candle power Tungsten bulbs with Ediswan base connections; with switch and necessary wiring assembled.

Set

No. M314—Black and nickel; diameter 9½ inches, depth 5½ inches; prop centers fit all Ford cars; weight 11 lbs.....$16 00
Packed, in two boxes

## *CARBURETOR ASSEMBLIES

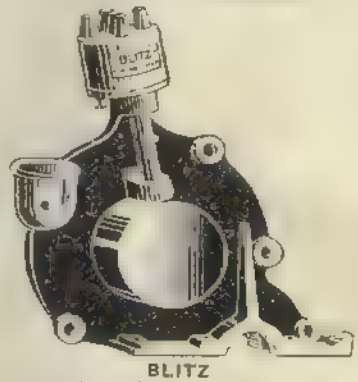
FORD-RAYFIELD

This assembly on a Ford car means more power and speed, greater flexibility, easier starting and less carbon; minimum gasoline consumption; cars climb hills easier and can be throttled down to a walk.

Each

No. M3100—Consisting of a 1-inch Model "H" Rayfield carburetor, specially designed manifold, hot air fitting throttle control bell crank, special gasoline connection and dash adjustment .....$23.00 $30.67
Packed, one in box.

## SPARKING SYSTEMS




BLITZ

For Ford cars; consists of a sparking-head containing a circuit-breaker and distributor, supported by a bracket-plate which interchanges with the front engine plate on a Ford car; driven by bevel pinions off the timer or cam shaft.

The Blitz uses only one unit of the coil on the dash which insures a uniform spark in all cylinders; the circuit-breaker operated by a four-pointed cam produces perfect timing; the breaker-bar is so constructed that it is impossible to produce a spark on the backward turn; all parts interchange with Ford parts making it easy to attach without marring the car.

Each

No. M488—Distributor Head made of Brown Condensite; heat, oil and acid proof; complete with spark advance rod and cast iron bracket; weight 8 lbs.....$30.00
Packed, one in box

NOTE Goods marked thus (*) are for factory shipment only.

# ACCESSORIES FOR FORD CARS

## TIMERS

FORD

The main case and cover are aluminum cast in one piece, lathe turned to the counterbore of the engine gear cover; the carrier is cast bronze, fitted with a large, wide hardened roller; all contact surfaces are ground and fitted; makes a durable ignition instrument; if properly lubricated will give perfect satisfaction.

Each

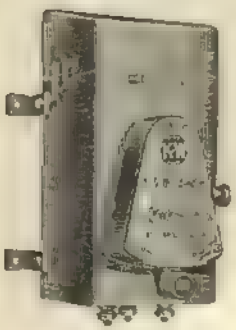
No. M527— For Model T 1913 Ford cars; weight 14 oz.....$ 3 00

These timers are of the well known roller type with a large hardened roller; the tension is maintained by an imported guss-stahl piano wire spring; the main case and bearings are cast bronze, machine finished; the cover is heavy aluminum casting, lathe turned, fits exactly into the case opening; contact surfaces are fitted snugly making the timer oil proof

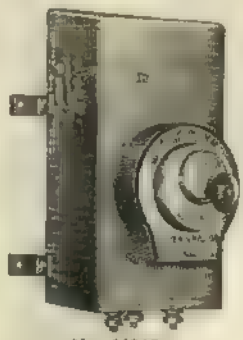
Each

No. M526—For model T—1910, 1911 and 1912 Ford cars; weight 22 oz. .....$ 5 00

## MASTER VIBRATORS



No. M502



No. M503

K-W

For Ford cars and all cars using vibrating spark coils; this is an auto-synchronous magnetic circuit breaker, timing the spark accurately; operates with either batteries or low tension magneto or both, with any make of coil; it causes every cylinder to fire its charge in the same angular position of the crank shaft, making all cylinders act in unison, giving more flexibility to the engine, more power at all speeds will run slower on high gear, saves gasoline encased in mahogany box 8¼x4½x3½ inches

Each

No. M502—Complete with kick switch of knife blade pattern contact; plug cut-out; weight 4 lbs.....$22 50

No. M503—Complete with Yale auto-lock switch and three keys switch cannot be operated without the key; no two locks with keys alike; weight 4 lbs..... 24.00

Packed, one in box.

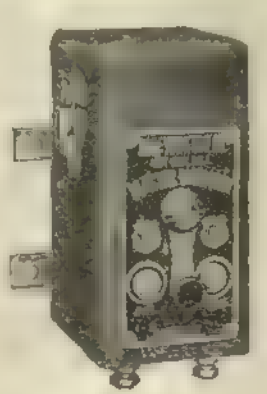
## MASTER VIBRATORS

CROWE

Each

No. M496—Crowe non-adjustable; for Ford cars; gives the engine increased power on hill climbing; enables machine to run slower on high gear, without missing fire; makes the engine crank easier; gives a flexibility and smoothness of speed and power impossible with four adjustable vibrators; weight 22 oz .....$15 00

Packed, one in box



No. M497

No. M498

FORD SPECIAL

Each

No. M497—Model T for Ford cars, non-adjustable; interior construction built on steel foundation, insuring perfect alignment of the parts, and preventing their changing relation to each other through heat or dampness; the vibrator is secured to the dash and connected to the magneto and battery, causing the current to pass through it to the four coils assuring uniform and perfectly timed ignition; in mahogany finished case, size 6x3x3 inches; weight 2½ lbs . $12 00

Packed, one in carton

SENIOR

Each

No. M495—Interrups the circuit of any number of coils, dispensing with the difficulty of adjusting a number of vibrators; avoids the large and varying current consumation due to not having the vibrators set properly, and makes the adjustment for a four or six-cylinder engine as simple as for a single cylinder; operates well with any of the low tension magnetos; in mahogany finished case, size 8x4x3 inches, weight 3¼ lbs .....$20 00

Packed, one in carton

BRIGGS & STRATTON

Each

No. M498—Is of the single pole type and extremely sensitive, producing a spark of the same intensity for each cylinder, responds at once to weak currents from the magneto; all vibrator parts are rigidly constructed; a knurled nut regulates the distance between vibrator blade and core of coil also the tension of the vibrator spring; japanned case is of specially treated fibre rendering it waterproof, size 4¾x2½ inches; weight 1¾ lbs. .....$11 00

Packed, one in box.

# ACCESSORIES FOR FORD CARS

## VIBRATOR SPRINGS

No. 50C

No. 51C

| | | Hundred |
|---|---|---|
| No. 50C | Upper springs for New York Model T Ford master vibrator ..... | $100.00 $150 00 |
| No. 51C | –Lower springs for New York Model T Ford master vibrator ..... | $120 00 180 00 |

## ACCELERATORS

Operated by the right foot; intended for use when quick acceleration of speed is necessary or desirable; positive action; simple in construction and operation, easily installed; does not interfere with removal of floor boards or engine head

| | Each |
|---|---|
| No. M1940—Complete, with directions for installing; weight 2 lbs. ..... | $ 1 50 |

## SWITCHES

| | Each |
|---|---|
| No. M468 K-W autolock; to be attached to coil box in place of regular switch, locks itself to box, cannot be removed without the key; operated by inserting key and turning it to right or left for battery or low tension magneto; three keys with each lock; no two locks with keys alike, weight 12 oz... ..... | $ 7 00 |

## SWITCH KEYS

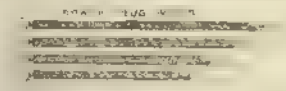
| | Each |
|---|---|
| No. M21K—Brass; for 1914 Ford cars; may also be used as gas tank key; weight 1 oz..... | $ 0 20 |

## *MAGNETIZERS

Portable, for remagnetizing the magnets of Ford magnetos without removing them from fly wheel; operated by holding the remagnetizer poles against the magnet poles and turning on the current; a slight turn of the handle switches the current on or off

| | Each |
|---|---|
| No M3000—Complete with extension cords and full directions for operating ..... | $24 00 |

## SPARK PLUG WIRE ASSEMBLIES



| | Each |
|---|---|
| No M1131 Consists of four high tension wires of proper length to reach from cylinders to dash connections, with eye terminals on one end and clip terminals on other end, weight 9 oz. ..... | $ 0 60 |

## COMMUTATOR WIRE ASSEMBLIES

| | Each |
|---|---|
| No. M1130—Consists of four differently colored wires enclosed in metal loom; eye terminals soldered on each end, for connecting timer to coil weight 1 lb..... | $ 1 00 |

## FAN BELTS

| | Doz |
|---|---|
| No. M748—Made of a closely woven fabric stretched and vulcanized inside diameter 7 inches; width 1 inch; ⅛ inch thick; weight 2 oz | $ 4 00 |

| | Doz. |
|---|---|
| No. M749—Wyeth; our own make; chrome leather, doubled and stitched with wax thread, oil, water and heat resisting, inside diamerter 7⅛ inches; width 1¼ inches; weight 3 oz. | $ 5 50 |

NOTE Goods marked thus (*) are for factory shipment only

# ACCESSORIES FOR FORD CARS

## SPARK PLUGS

No. M412

No. M423.

No. M400F

No. M405XF

No. M427F

No. M402F

No. M416F

No. M438F

### MOSLER SUPERIOR

Made to meet the requirements of the Ford Model T engine, the central electrode is made of the very best sparking metal and can be adjusted up or down by means of a set screw, the wires are bent so that any excess lubrication runs off and does not interfere with the sparking point

Each

**No. M412**—Ford Special; weight 3½ oz. ..... $ 0.60

### SHARP

This Mica Spark Plug has a core twice the thickness of the ordinary mica plug, so that the heat, oil and extreme high tension of a magneto has no ill effect upon it, insuring a spark in the cylinder as long as the generator plan continues to deliver it; made especially for Ford cars.

Each

**No. M423**—Ford special mica spark plug; weight 3½ oz. ..... $ 0.70

### SOOT PROOF

The Soot Proof was the first carbon and oil proof plug on the market, guaranteed to give satisfaction. The insulator is made of hand turned porcelain, has substantial nickel spark points, so constructed that the parts can be replaced and repairs made without special knowledge or tools.

Each

**No. M400F**—Ford special; weight 3½ oz. ..... $ 0.70

### CHAMPION X

Champion X spark plug is made for Ford and Reo cars; adopted by those factories, will not foul or soot up; also an excellent plug for Maxwell, E. M. F., Buick, Flanders and Regal cars

Each

**No. M405XF** Ford special; weight 3 oz ..... $ 0.74

### RED HEAD

The Red Head Spark Plug is composed of three parts, shell bushing and electrode; by unscrewing the bushing the electrode may be taken out for cleaning without removing the shell from the cylinder; the porcelain is guaranteed not to crack from heat.

Each

**No. M427F** -Ford special; weight 4 oz. ..... $ 0 80

### A. C.

This Spark Plug will not leak or soot, will throttle an engine lower down than any other plug; is for magneto or battery use

Each

**No. M402F** -Ford special; extra long porcelain; weight 3½ oz. ..... $ 1 00

### SPLITDORF

The Splitdorf plug differs radically from any other on the market, the insulation being a combination of porcelain and mica. The central electrode, which is tapered in form, is first wrapped in an insulation of sheet mica; this is then set in the center member of the plug base, the part which projects above the base is given another mica insulation and the whole is inserted in a porcelain outer covering.

Each

**No. M416F** - Ford special; weight 4 oz. ..... $ 1.20

### BLITZ

Solid nickel silver central electrode; a sheet of pressed mica is wound laterally around the electrode, then completely encased in porcelain, this protects the mica from absorbing oil, thus preventing short circuits, extra large firing points; blue porcelain jackets protects the core against moisture and breakage, insuring a perfect spark at all times, brass bushings; solid steel shell, copper rim asbestos gasket.

Each

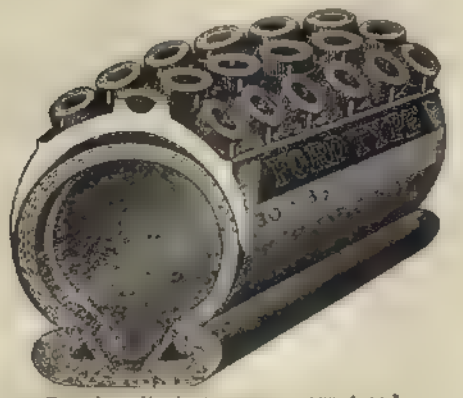
**No. M438F**—Ford Special; weight 4 oz. ..... $ 1.50

# ACCESSORIES FOR FORD CARS

## CASINGS

These casings are of the same high grade materials as those illustrated on page 1355.

Regular clincher, plain tread



Regular clincher, vacuum cup tread.

### PENNSYLVANIA

Plain and vacuum cup tread; regular clincher.

| | Each |
|---|---|
| Size 30x3 inches | $ |
| Size 30x3½ inches | |
| *Size 31x3½ inches; oversize for 30x3-inch rim | |
| *Size 31x4 inches; oversize for 30x3½-inch rim | |

### MICHELIN

Plain tread; regular clincher.

| | Each |
|---|---|
| Size 30x3 inches | $ |
| Size 30x3½ inches; oversize for 30x3-inch rim | |
| *Size 31x3½ inches; oversize for 30x3-inch rim | |
| *Size 31x4 inches; oversize for 30x3½-inch rim | |

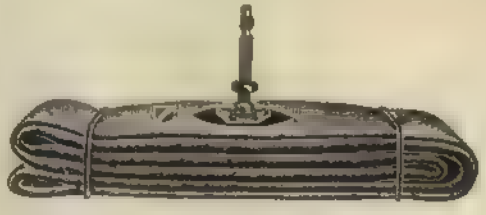
### G. & J.

Plain, Chain and Nobby tread; regular clincher.

| | Each |
|---|---|
| Size 30x3 inches | $ |
| Size 30x3½ inches | |
| *Size 31x3½ inches; oversize for 30x3-inch rim | |
| *Size 31x4 inches; oversize for 30x3½-inch rim | |

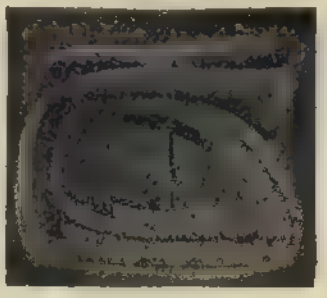
## INNER TUBES

These inner tubes are of the same high grade material, as illustrated on page 1356.



### WYETH

| | Each |
|---|---|
| No. M4303—Size 30x3 inches; weight 2¼ lbs | $ 5.10 |
| No. M4303½—Size 30x3½ inches; weight 2⅝ lbs | 6.20 |



### MICHELIN

| | | Each |
|---|---|---|
| No. M1303—Size 30x3 inches; weight 2¼ lbs | $2 50 | $ 7 00 |
| No. M1303½—Size 30x3½ inches; weight 2⅝ lbs | 4 25 | 8 50 |
| *No. M1313½—Size 31x3½ inches; weight 3 lbs | 3 60 | 6 00 |

### PENNSYLVANIA

Made of the very best red rubber, 85 per cent pure; will fit perfectly either 30x3 or 30x3½-inch casings. This is made possible by the purity of the stock entering in its construction.

| | Each |
|---|---|
| Dunford—Weight 2¾ lbs | $ 3 60 |

### ERIE

| | Each |
|---|---|
| No. M6303—Size 30x3 inches; weight 2¼ lbs | $ 4 00 |
| No. M6303½—Size 30x3½ inches; weight 3½ lbs | 5 50 |

### G. & J

Finest quality grey rubber

| | | Each |
|---|---|---|
| *Size 31x3½ inches; weight 3 lbs | $3 60 | $ 5 68 |
| *Size 31x4 inches; weight 3¼ lbs | 4.45 | 7.00 |

## CHAIN TIRE GRIPS

### WEED

These grips have been tried out thoroughly by hundreds of drivers in the past five years. They will positively prevent slipping or skidding, and are perfect traction in snow or sand. They are made of the best material the cross chains are brass plated to prevent rusting and are especially treated to minimize wear

| | Pair |
|---|---|
| No. M6302—Size 30x3 inches; weight per pair 11 lbs. | $4 50 $ 6.75 |
| No. M6303½—Size 30x3½ inches; weight per pair 13 lbs. | 6.00 7.50 |

### RID-O-SKID

These chains are made of good material and are specially treated to minimize wear.

| | Pair |
|---|---|
| No. M7303 Size 30x3 inches; weight per pair 10½ lbs | $2 50 $ 3 75 |
| No. M7303½—Size 30x3½ inches; weight per pair 11¼ lbs. | 2.65 3 98 |

NOTE—Goods marked thus (*) are for factory shipment only.

# ACCESSORIES FOR FORD CARS

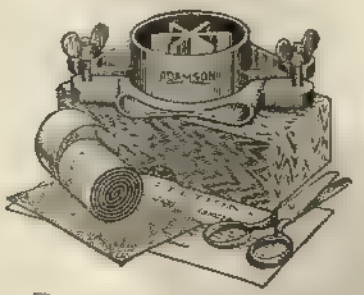
## BLOW OUT PATCHES

Wyco Blow Out Patch; will not creep; holds any blow out; made of 7-ply fabric and rubber formed, stretched and vulcanized into shape, strong, durable and reliable, will not bulge or give way under tire strain, 8 inches long, fully guaranteed.

Each

No. M1810½—Ford Special; 3 and 3½ inches; weight ¾ lb. ..... $ 0.80

## VULCANIZERS



Adamson; all metal; small and compact; vulcanizes in 15 minutes; impossible to overvulcanize, as cup holds only sufficient gasoline for one vulcanizing operation.

Each

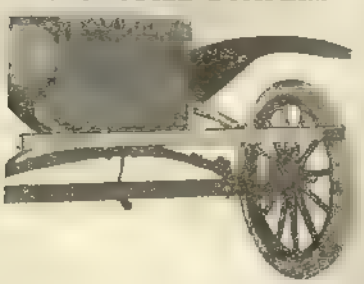
No. M1175—Ford Special; complete with measure cup, scissors, sand paper and roll of repair rubber; weight 2 lbs. ..... $ 2.10

## TIRE TOOLS

Each

No. M669—Holden; for 3 and 3½-inch clincher tires, especially adapted to Ford cars; will loosen any frozen or rusted tire; all iron, aluminum finish; length, open 13½ inches, closed 11 inches; weight 1¾ lbs ..... $ 1.00

## AUTOMOBILE BUMPERS



Channel bar bumper for Model "T" Ford cars; length of bar 58 inches; attaches to side of radiator, easily attached, no holes to drill

Each

No. M381 All black, hard rubber finish, weight 15 lbs. ..... $ 7.00

No. M382 Nickel and black; weight 15 lbs. ..... 8.00

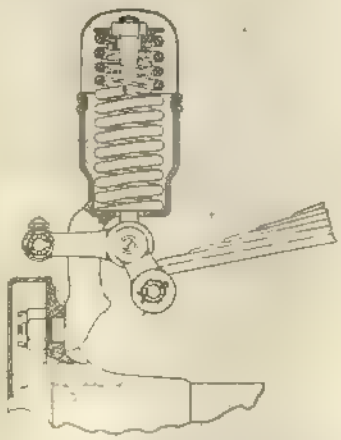
## SHOCK ABSORBERS

### FORDEZER

Set

No. M724—For Ford touring cars; eliminates vibration; all supporting parts drop forged from best grade of steel, concealed vanadium steel springs; bronze bearings, dust-proof; contain enough oil to last a year; weight per set of four 20 lbs. ..... $16.00

No. M726—For Ford roadster cars; otherwise same as No. M724 ..... 16.00



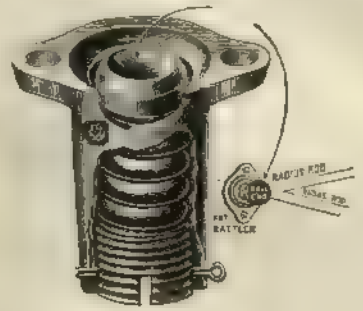
### TEMCO

Set

No. M727—For Ford touring cars; hanger bolt, stem and radius links drop forged steel, accurately machined; bronze bushings; malleable iron cylinder, double spiral vanadium steel springs; dust proof; no grease to work out, weight per set of four 24 lbs. ..... $20 00

No. M728—For Ford roadster cars; otherwise same as No. M727 ..... 20 00

## ANTI-RATTLERS

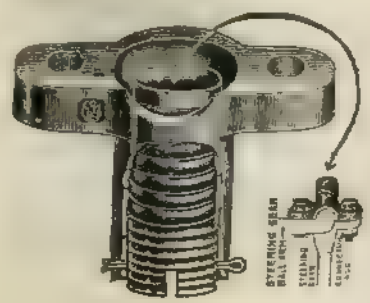


Each

No. M667—For radius rods; hardened brass housing; ball socket; screw adjustment; tempered steel coil spring; anti rattler inserted in place of solid cap in radium absorbs vibration; no drilling required, weight 12 oz. ..... $ 0 74

No. M1667—Malleable iron; otherwise same as No. M667 ..... .74

Packed, one in box



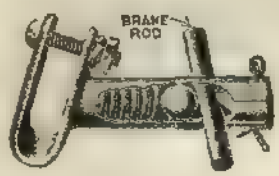
Each

No. M663—For connecting rod of steering gear on Ford cars; black enameled brass casting; tempered steel coil spring; hardened steel ball socket; screw adjustment to take up wear; weight 6 oz. ..... $ 0.60

No. M1663—Malleable iron; otherwise same as No. M663 ..... .60

Packed, one in box.

## BRAKE ROD SUPPORTS

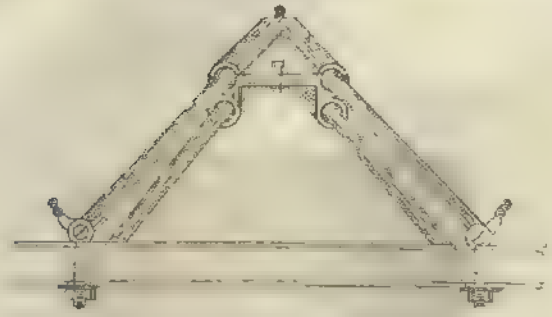



Pair

No. M664—Cast bronze casing contains hardened steel ball and tempered steel spring, ball is held in tension against brake rod by the spring, preventing vibration and wear; weight per pair 1½ lbs. ..... $ 2.00

# ACCESSORIES FOR FORD CARS

## RADIUS RODS



An auxiliary to the front axle; doubles the strength and overcomes vibration of the entire front axle assembly, relieves the strain on the front springs; resulting in easier control of the car.

Each

No. M1560 All steel; complete with bolts and clamps.....$ 5.00

## VALVE ADJUSTERS

An oil tempered spring steel cylinder so constructed that it will grip the exposed end of the push rod forming a receptacle for thin discs which regulate the lift of the valve and form a cushion for the valve stem, eliminates click, takes up wear and lost motion

Set

No. M1570—Townsan's; weight per set 1 lb .....$ 1.50

## TIRE BRACKETS

Combination rear tire and license bracket; easily applied, no holes to drill; center support clamped to center of rear spring; will hold two tires

Each

No. M349 Buckeye; black enameled; complete with straps; weight 14 lbs. .....$ 4 50

## FENDER BRACES

No M1670

No. M1671

FRONT

Each

No. M1670—Black enameled steel; fastens front fender to running board shield making both firm and rigid as if they were one piece; weight 4 oz. .....$ 0.15

REAR

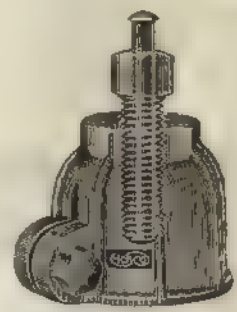
No. M1671 Black enameled steel fastens over rear fender support rod, weight 2 oz. .....$ 0 08

## HUB CAPS

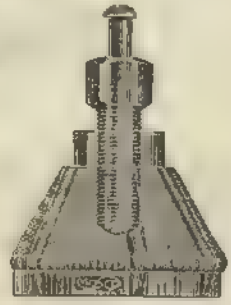
Each

No. M197—Seamless brass, extra heavy; for model "T" Ford cars; corners of the nut drawn up sharp instead of rounded edges, preventing wrench from slipping on the cap; weight 3 oz. .....$ 0.24

## WHEEL PULLERS



No. M662



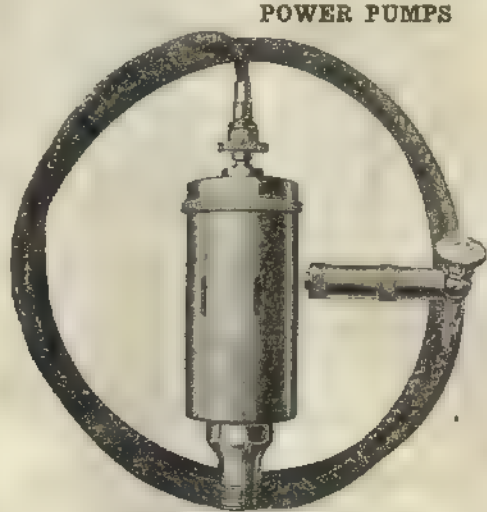
No. M666

For removing wheels from Ford cars easily and quickly, replace hub cap with wheel puller, lock to hub by tightening binding screw on side, tightening of end screw forces wheel off the axle; a sharp blow with a hammer on the plunger in end of screw will start wheel from axle.

Each

No. M662 Semi-steel; ribbed; weight 19 oz. .....$ 1.20
No. M633 Without plunger; otherwise same as No. M662..... 1 00
No. M666 For Overland cars, same as No. M662 except has no binding screw on side ..... 1 80

## POWER PUMPS



No. M832

No. M828

UTILITY

Nickel plated metal case, working parts bronze and steel; braid covered tubing tested to 1,000 pounds; hose equipped with Pneu-Meter makes it impossible to explode tires from over-inflation.

Each

No. M832 With Pneu-Meter; height 7 inches; diameter 2¾ inches; complete with 12 feet of tubing; weight 3½ lbs .. $15.00
No. M833—Without Pneu-Meter; otherwise same as No. M832 13.00

BROWN, JR.

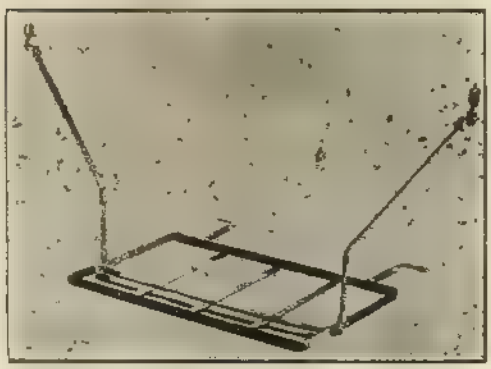
Triple expansion; but one moving part; noiseless; foolproof, simple in construction and efficient; impossible for gas from cylinders to enter tires.

Each

No. M828—Less spark plug height 9½ inches, complete with 10 feet high grade air hose; weight 3¾ lbs.... .....$10 50

# ACCESSORIES FOR FORD CARS

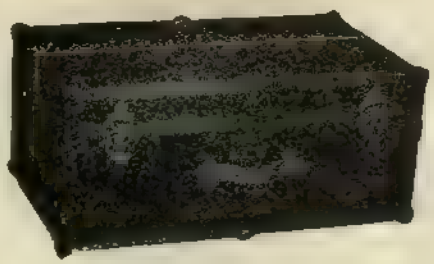
## TRUNK RACKS



Black enameled steel; securely riveted and well braced; simple, convenient and strong; when not in use rack can be folded against back of car.

| | Each |
|---|---|
| No. M348—Length 30 inches; weight 14 lbs. | $ 2.50 |

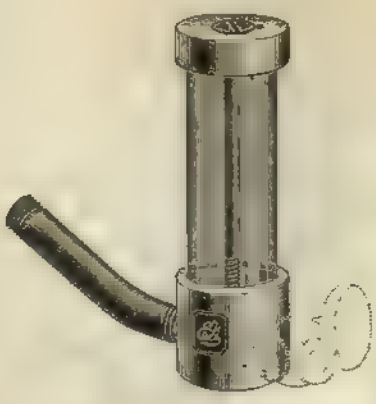
## AUTOMOBILE TRUNKS



Dustite; basswood, covered with black enameled steel; edges protected by angle steel, corners with corner irons; brass plated steel catches and lock.

| | Each |
|---|---|
| No. 51—Paper lined; length 28 inches, width 12 inches; height 12 inches; weight 22 lbs. | $ 8.50 |

## OIL GAUGES



| | Doz. |
|---|---|
| No. M811—For Ford cars; easy to attach; always shows oil level; permits draining of motor without removing gauge; eliminates smoke and excessive use of oil; weight per dozen 6 lbs. | $ 5.00 |

## GREASE CUPS

For Ford cars; solid brass; plunger fitted with leather washer to prevent leakage; accurately machined

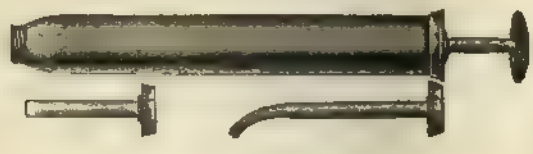
| | Doz. |
|---|---|
| No. M902—Polished brass; ⅛-inch iron pipe thread; weight per dozen 12 oz | $ 2.00 |
| No. M903—Nickel plated; ⅛-inch iron pipe thread, weight per dozen 12 oz. | 2 20 |

## AUTO OIL

Refined from Pennsylvania paraffine base petroleum; highly filtered; high fire test; will not carbonize in motor; gives increased compression and reduces consumption of oil.

| | Gal. |
|---|---|
| No. M895—1-gallon can; weight 5 lbs. | $ 1.00 |
| No. M896—5-gallon can; weight 40 lbs. | .86 |

## GREASE GUNS



### LACO

Brass plated steel; the end of cylinder is threaded to fit tap hole in Ford differentials; fitted with one 5-inch curved spout for oil and one 2-inch straight spout for grease.

| | Each |
|---|---|
| No. M853—Length 9 inches; diameter 1¼ inches; weight 1 lb. | $ 0.60 |

## HOSE

For Ford cars; high grade three-ply rubber.

### INTAKE

| | Each |
|---|---|
| No. M634—Length 2¾ inches; diameter 1¾ inches; weight 2½ oz. | $ 0.20 |

### OUTLET

| | |
|---|---|
| No. M635—Length 3¼ inches; diameter 2 inches; weight 4 oz. | $ 0.25 |

# ACCESSORIES FOR FORD CARS

## WRENCH SETS

Set

**No. M963** Ford, consists of 10-inch ratchet handle, one extention bar, highly nickel plated; one universal joint, one screw driver bit, ten hardened steel sockets, one spark plug socket; weight 4½ lbs. ..... $ 8.50

MOSSBERG

Set

**No. M962**—Consists of 10 case hardened steel sockets; seven hexagon sockets, fitting sizes from ¼ to 31 32 inches, one ½-inch square socket, one 31 32 inch spark plug socket, 4 inches long; one oval socket for Ford main bearing nuts; weight per set 5 lbs. ..... $ 3.00

## TOOL BOXES

Tool, Battery or Supply Box; raised panel in cover; for running board that requires use of a medium size box.

Each

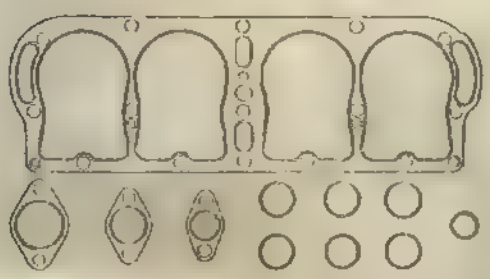
**No. MB230**—For Ford cars; inside measurements, length 18 inches, width 8 inches, height 7 inches; weight 10 lbs. ..... $ 4 00

Battery Box; also makes a convenient tool box where width of running board requires a narrow box; adapted for Vesta batteries.

Each

**No. MB231**—For Ford cars; inside measurements, length 22 inches, width 9 inches, height 7 inches; weight 12 lbs.. $ 4 50

## GASKET SETS



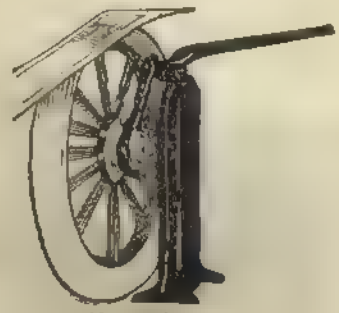
Made of heavy asbestos covered with sheet brass and copper bound around the openings.

**No. M930**—Consists of 11 gaskets, one each for cylinder head, cylinder head outlet, cylinder head inlet, cylinder head flange, transmission drain plug and six inlet and exhaust pipe gaskets; weight 7 oz..... ..... $ 0.80

Packed, 10 sets in box.

## AUTOMOBILE JACKS

No. M1551



No. M55

ALL-STEEL

A light, compact, ratchet acting jack, for Ford cars; is raised or lowered by the reverse lever.

Each

**No. M1551** Raises up 5 inches; height 10 inches; capacity 1,000 pounds; weight 2½ lbs ..... $ 0 80

MOORE

A light weight stamped steel jack; lever action; keeps weight of car off the tires when not in use, thereby saving a considerable tire expense.

Set

**No. M553**—Set of four; for Ford cars; weight per set 27½ lbs..$ 7.50

# ACCESSORIES FOR FORD CARS

## INTERNAL CAM BRAKES

Pair

No. M944—For Ford cars; a specially constructed internal cam brake, Raybestos lined; more effective, wears longer than a metal to metal brake; easily attached ..... $ 2.10

Packed, one pair in package.

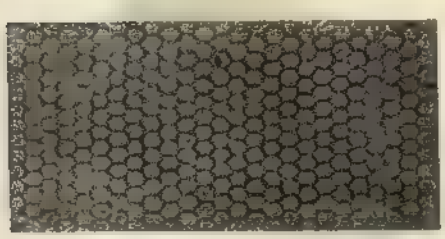
## BRAKE LINING

A high grade wireless transmission brake lining, not affected by heat or oil; does not harden and glaze; this eliminates chatter or rattling and gives a long wearing life.

Set

No. M945—Contains three pieces of brake lining 23 inches long, 1⅛ inches wide, ⅛ inch thick, with brass rivets ..... $ 1.70

Packed one set in box



RAYBESTOS

Not affected by heat, oil or gasoline; practically indestructible; no unpleasant odor when brakes are applied.

Foot

No. M849 Ford special; ⅛ inch thick; 1⅛ inches wide..... $0.39 $ 0.39

## BRONZE BUSHINGS

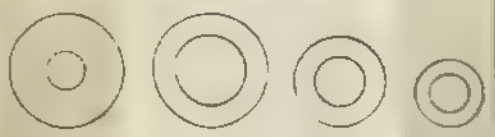
For Ford cars; highest quality bearing bronze; true in size

Each

No. M2713—For axle spindle; weight 1⅜ oz. ..... $ 0 25

No. M2714—For axle arm; weight 1½ oz. ..... .16

## FELT WASHERS



Best quality felt; correct sizes for use on Ford cars

Doz

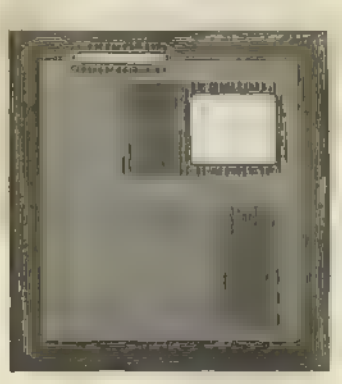
No. M1921 Rear wheel; size 2¼x2⅜ inches; ⅛-inch thick; weight per dozen 3 oz. ..... $ 0.50

No. M1922—Front wheel; size 2⅛x1⅞ inches; ⅜-inch thick; weight per dozen 2 oz. ..... .60

No. M1923—Crank shaft; size 2x¾ inches; ⅜-inch thick; weight per dozen 2 oz. ..... .50

No. M1924—Steering bracket; size 1⅛x⅞ inches; ⅛ inch thick; weight per dozen 1½ oz. ..... .30

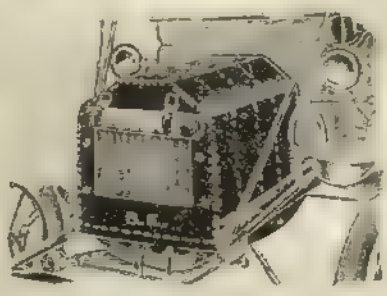
## RUBBER MATS



Each

No. M564—For Ford cars; made of high grade quality rubber and fabric, nicely finished; 31 inches wide at rear, tapering to 30¼ inches wide at front, 27⅛ inches long; weight 5 lbs. ..... $ 2.60

## RADIATOR PROTECTORS



Each

No. M2182 To cover radiator and hood; heavy duck, oiled and waterproofed, felt lined; weight 4 lbs $ 3.50

## SEAT AND TOP COVERS

Grade A; double texture waterproof, rubberized mackintosh; leather bound; protects upholstering; for 1914 model T Ford cars

SEAT

Each

No. M1400 For touring car; to cover cushions, back and door; pockets for books, road maps, etc., in door covers; weight 9¾ lbs. ..... $19 00

No. M1402 For Roadster cars; otherwise same as No. M1400; weight 5¾ lbs. ..... 11 00

TOP COVERS

Each

No. M1401—For touring cars; to cover tops only; weight 3 lbs. ..... $ 5.00

No. M1403 For Roadster cars; to cover tops only, weight 2¼ lbs. ..... 5 00

## LAP ROBES

Each

No. 210 Single plush; grey; bound edges; sizes 50x60 inches..... $ 2 70

No. 501—Waterproof; grey covert cloth back; rubber face; size 50x62 inches ..... 3.20

No. 0223—Light rubber face, green plush lined; size 48x60 inches..... 4.80

No. 227—Double plush; green face; black back; rubber interlined, size 50x60 inches ..... 7 00

# OHIO FANCY WOOD PLANES

Best grade thoroughly seasoned beechwood, blades are forged from high grade tool steel especially adapted to this purpose and are thicker at cutting edge, which prevents trembling of plane iron and insures a clear cut.

One pair

### BOARD MATCHING

In Pairs

| | Pair |
|---|---|
| No. 75BM—Sizes ⅞ and 1 inch; average weight 2½ lbs..$1.50 | $ 2.55 |

Single iron — Double iron

### NOSING STEP

Single Iron

| | |
|---|---|
| No. 90NS—Sizes ¾, ⅞, 1 and 1¼ inches; average weight 1⅜ lbs. .....$0 80 | $ 1.36 |
| No. 90NS—Size 1½ inches; average weight 2 lbs..... 1.00 | 1.70 |

Double Iron

| | Each |
|---|---|
| No. 91NS—Sizes ¾, ⅞, 1, 1¼ and 1½ inches; average weight 1⅜ lbs .....$1 10 | $ 1.87 |

Dado — Skew rabbet

### DADO

| | |
|---|---|
| No. 47D—Side stop; ¾ and ⅞ inches; average weight 1¼ lbs. .....$1.10 | $ 1.87 |

### SKEW RABBET

| | Each |
|---|---|
| No. 116SR—Size ¾ and 1 inch; weight 1 lb.... ..... $0 60 | $ 1.02 |
| No. 116SR—Size 1¼ inch; weight 1⅓ lbs..... 65 | 1.10 |
| No. 116SR—Size 1½ inch; weight 1¾ lbs..... .70 | 1.19 |

Roman reverse ogee — Beading

### ROMAN REVERSE OGEE

| | Each |
|---|---|
| No. 62½—Size ⅞ inch with fence weight 1 lb.....$0.90 | $ 1.55 |

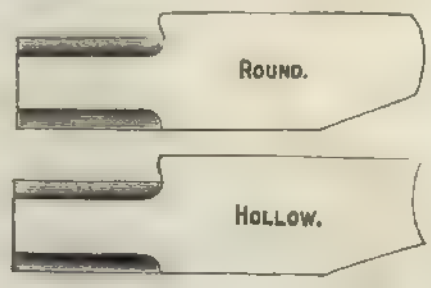
### BEADING

| | Each |
|---|---|
| No. 37—Side beading; single boxed, sizes ¼, ⅜ and ½ inch; average weight ⅞ lb. . . . $0 50 | $ 0.85 |

### PANEL PLOW

Adjustable irons; nickel plated stop screw.

| | Each |
|---|---|
| No. 96½—8 irons; weight 5 lbs.....$5.50 | $11.05 |
| No. 97—8 irons; boxed fence; weight 4¾ lbs..... 6.85 | 11.65 |




### HOLLOWS AND ROUNDS

| No. 72—Sizes | 2 | 3 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|
| Width cutter, inches | ⅝ | ½ | ¾ | ⅞ | 1 | 1⅛ | 1¼ |
| Size circle cut, inches | ¾ | 1 | 1½ | 1⅝ | 2 | 2¼ | 2½ |
| Weight per pair, lbs | 1⅛ | 1½ | 2 | 2¼ | 2¼ | 2½ | 2¾ |
| Pair | $1.00 | 1.00 | 1.00 | 1.00 | 1.15 | 1.15 | 1.15 |
| | 1.70 | 1.70 | 1.70 | 1.70 | 1.96 | 1.96 | 1.96 |

NOTE—The round plane cuts the hollow and should be ordered as round, the hollow plane cuts the round and should be ordered as hollow; half pairs at half price of pair

Packed one in package.

# WOOD BENCH PLANES

### UNHANDLED SMOOTH

| | Each |
|---|---|
| No. 8B—8 inches long; 2 to 2¼-inch double iron; polished start; weight 2 lbs.....$0.90 | $ 1.20 |

### HANDLED SMOOTH

| | Each |
|---|---|
| No. 5B—10½ inches long; 2 to 2¼-inch double iron; polished start; handle and frame one piece; weight 2¼ lbs..$1.75 | $ 2.80 |

### JACK

| | Each |
|---|---|
| No. 15B—16 inches long; 2 to 2¼-inch double iron; weight 3¾ lbs. .....$1.00 | $ 1.34 |

### FORE

| | Each |
|---|---|
| No. 21B—22 inches long; 2⅜ to 2⅝-inch double iron; weight 6½ lbs. .....$1.70 | $ 2.26 |

### JOINTER

| | Each |
|---|---|
| No. 27B—26 inches long; 2½ to 2¾-inch double iron; weight 7¾ lbs. .....$1.80 | $ 2.40 |
| No. 27B—28 inches long, 2½ to 2¾ inch double iron; weight 8¾ lbs. .....$1.90 | 2.54 |

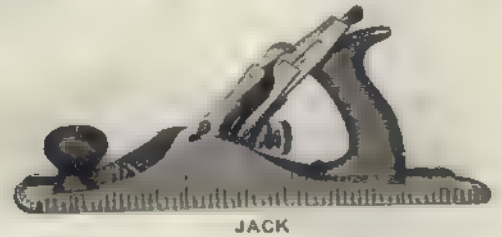
## OHIO ADJUSTABLE IRON BENCH PLANES

Black japanned body; polished face and sides; blades are forged from high grade tool steel especially adapted to this purpose, and are thicker at cutting edge, which prevents trembling of plane iron and insures a clear cut lateral and longitudinal screw and lever adjustments; stained and varnished beechwood handle and knob; ground sides.

### SMOOTH BOTTOM

#### SMOOTH

| | Each |
|---|---|
| No. 03—8 inches long, 1¾ inch cutter weight 3¼ lbs | $ 2 20 |
| No. 04—9 inches long 2-inch cutter weight 3¾ lbs | 2 40 |
| No. 04½—10 inches long, 2⅜ inch cutter, weight 5 lbs | 2 80 |



#### JACK

| | Each |
|---|---|
| No. 05 14 inches long; 2 inch cutter weight 5½ lbs | $ 2 80 |
| No. 05½—15 inches long, 2⅜ inch cutter, weight 5¾ lbs | 3.10 |

#### FORE

| | Each |
|---|---|
| No. 06—18 inches long 2⅜-inch cutter, weight 7 lbs | $ 3 50 |

#### JOINTER

| | Each |
|---|---|
| No. 07—22 inches long; 2⅜-inch cutter; weight 7¾ lbs | $ 4 10 |
| No. 08—24 inches long; 2⅜-inch cutter; weight 9 lbs | 4 80 |

### CORRUGATED BOTTOM

#### SMOOTH

| | Each |
|---|---|
| No. 03C—8 inches long 1¾-inch cutter; weight 3¼ lbs. | $ 2 20 |
| No. 04C 9 inches long, 2-inch cutter, weight 3¾ lbs | 2 40 |
| No. 04½C 10 inches long, 2⅜-inch cutter; weight 5 lbs | 2 80 |

#### JACK

| | Each |
|---|---|
| No. 05C—14 inches long 2 inch cutter, weight 5½ lbs. | $ 2 80 |
| No. 05½C—15 inches long, 2⅜ inch cutter; weight 5¾ lbs | 3.10 |

#### FORE

| | Each |
|---|---|
| No. 06C—18 inches long, 2⅜-inch cutter; weight 7 lbs. | $ 3.50 |

#### JOINTER

| | Each |
|---|---|
| No. 07C—22 inches long; 2⅜ inch cutter; weight 7¾ lbs. | $ 4.10 |
| No. 08C 24 inches long, 2⅜-inch cutter; weight 9 lbs. | 4.80 |

Packed, one in cardboard box.

## OHIO ADJUSTABLE WOOD BENCH PLANES

Black japanned iron frame; varnished beechwood block; varnished hardwood knob and handle, lateral and longitudinal screw and lever adjustment.

#### UNHANDLED SMOOTH

| | Each |
|---|---|
| No. 023 9 inches long, 1¾ inch cutter, weight 2¾ lbs | $ 1 50 |

#### HANDLED SMOOTH

| | Each |
|---|---|
| No. 035—9 inches long, 2 inch cutter; weight 3½ lbs | $ 1.85 |

#### JACK

| | Each |
|---|---|
| No. 026—15 inches long; 2-inch cutter; weight 4½ lbs. | $ 1.70 |
| No. 027—15 inches long, 2⅜ inch cutter, weight 5 lbs | 1.85 |

#### FORE

| | Each |
|---|---|
| No. 028—18 inches long, 2⅜-inch cutter weight 6 lbs | $ 2 04 |
| No. 029 20 inches long, 2⅜ inch cutter, weight 6½ lbs | 2.04 |

#### JOINTER

| | Each |
|---|---|
| No. 031—24 inches long; 2⅜-inch cutter; weight 7½ lbs. | $ 2 20 |
| No. 032—26 inches long, 2⅜ inch cutter; weight 8 lbs. | 2 40 |
| No. 033—28 inches long, 2⅜ inch cutter, weight 8½ lbs | 2.40 |

Packed, one in cardboard box.

## STANLEY BAILEY ADJUSTABLE IRON BENCH PLANES

Black japanned frame with polished face and sides thoroughly seasoned rosewood handle and knob, cutter is made of the best quality English steel; ground and tempered, and honed ready for use; polished cap; screw and lever adjustments

### SMOOTH BOTTOM

SMOOTH

| | | Each |
|---|---|---|
| No. 1 | 5½ inches long 1¾ inch cutter, weight 1 lb | $ 1.94 |
| No. 2 | 7 inches long 1⅝-inch cutter, weight 2 lbs | 2.54 |
| No. 3 | 8 inches long, 1⅝ inch cutter, weight 3¼ lbs | 2.70 |
| No. 4 | 9 inches long 2-inch cutter, weight 3¾ lbs | 2 80 |
| No. 4½ | 10 inches long; 2⅜ inch cutter, weight 5 lbs | 3.40 |

JACK

| | | Each |
|---|---|---|
| No. 5 | 14 inches long 2-inch cutter; weight 6 lbs | $ 3.40 |
| No. 5½ | 15 inches long; 2¼ inch cutter, weight 6¼ lbs | 3.90 |

FORE

| | | Each |
|---|---|---|
| No. 6 | 18 inches long, 2⅜-inch cutter, weight 7 lbs. | $ 4 10 |

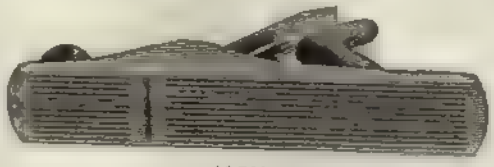
JOINTER

| | | Each |
|---|---|---|
| No. 7 | 22 inches long; 2⅜ inch cutter, weight 8½ lbs. | $5 10 |
| No. 8 | 24 inches long; 2⅝-inch cutter, weight 9½ lbs | 6.00 |

### CORRUGATED BOTTOM

SMOOTH

| | | Each |
|---|---|---|
| No. 2C | 7 inches long; 1⅝-inch cutter; weight 2¼ lbs | $ 2.54 |
| No. 3C | 8 inches long, 1⅝-inch cutter; weight 3¼ lbs | 2 70 |
| No. 4C | 9 inches long, 2-inch cutter, weight 3¾ lbs. | 2 80 |
| No. 4½C | 10 inches long, 2⅜ inch cutter, weight 5 lbs | 3 40 |



JACK

| | | Each |
|---|---|---|
| No. 5C | 14 inches long; 2-inch cutter, weight 6 lbs. | $ 3.40 |
| No. 5½C | 15 inches long, 2¼-inch cutter, weight 6¼ lbs | 3.90 |

FORE

| | | Each |
|---|---|---|
| No. 6C | 18 inches long, 2⅜-inch cutter; weight 7 lbs. | $ 4.10 |

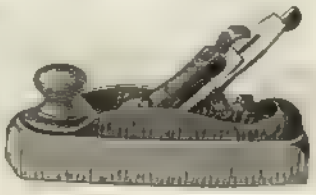
JOINTER

| | | Each |
|---|---|---|
| No. 7C | 22 inches long, 2⅜ inch cutter, weight 8½ lbs | $ 5 10 |
| No. 8C | 24 inches long, 2⅝-inch cutter, weight 9½ lbs. | 6.00 |

Packed, one in cardboard box.

## STANLEY BAILEY ADJUSTABLE WOOD BENCH PLANES

Black japanned iron frame; varnished beechwood block; varnished hardwood knob and handle; cutters of regular Bailey type, lateral and longitudinal adjustment, frog is held in place by two machine screws which pass through the top iron and screw into two brass lugs, which are screwed and securely pinned into the wood bottom, this method of fastening holds together firmly, the wood bottom, the top iron and the frog, thus greatly strengthening the plane.



UNHANDLED SMOOTH

| | | Each |
|---|---|---|
| No. 22 | 8 inches long; 1⅝-inch cutter; weight 2¼ lbs. | $ 1.86 |
| No. 23 | 9 inches long; 1⅝-inch cutter; weight 2½ lbs. | 1.86 |
| No. 24 | 8 inches long, 2-inch cutter; weight 2¾ lbs. | 1.86 |

UNHANDLED BLOCK

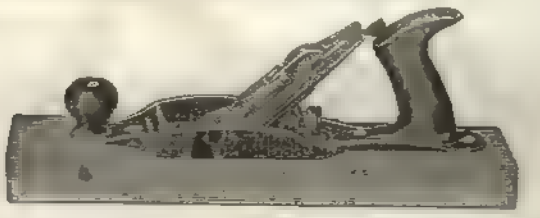
| | | Each |
|---|---|---|
| No. 25 | 9½ inches long; 1¾-inch cutter; weight 2½ lbs | $ 1.86 |

HANDLED SMOOTH

| | | Each |
|---|---|---|
| No. 35 | 9 inches long; 2-inch cutter; weight 3 lbs. | $ 2.10 |
| No. 36 | 10 inches long; 2⅜-inch cutter, weight 3¾ lbs | 2.64 |

HANDLED JENNY SMOOTH

| | | Each |
|---|---|---|
| No. 37 | 13 inches long, 2⅝-inch cutter; weight 5 lbs | $ 2.92 |

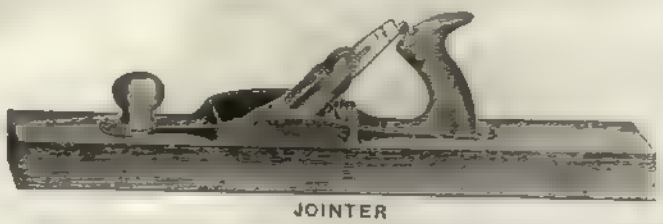


JACK

| | | Each |
|---|---|---|
| No. 26 | 15 inches long, 2-inch cutter; weight 4 lbs. | $ 1.90 |
| No. 27 | 15 inches long 2⅛-inch cutter, weight 4 lbs. | 2.10 |
| No. 27½ | 15 inches long, 2¼-inch cutter, weight 4¾ lbs | 2.40 |

FORE

| | | Each |
|---|---|---|
| No. 28 | 18 inches long, 2⅝-inch cutter, weight 5 lbs. | $ 2.70 |
| No. 29 | 20 inches long, 2⅝-inch cutter; weight 5½ lbs. | 2.70 |



JOINTER

| | | Each |
|---|---|---|
| No. 30 | 22 inches long, 2⅜-inch cutter, weight 6½ lbs | $ 2 80 |
| No. 31 | 24 inches long, 2⅜ inch cutter, weight 6 lbs | 2 90 |
| No. 32 | 26 inches long; 2⅝-inch cutter, weight 7 lbs. | 3.10 |
| No. 33 | 28 inches long, 2⅝-inch cutter, weight 8 lbs | 3.16 |
| No. 34 | 30 inches long; 2⅝-inch cutter, weight 8½ lbs. | 3.46 |

Packed, one in package.

## STANLEY BED ROCK ADJUSTABLE IRON BENCH PLANES

Black japanned frame with polished face and sides; thoroughly seasoned rosewood handle and knob; cutter is made of best quality English steel, ground and tempered by an improved process, and honed ready for use, polished cap; screw and lever adjustments. Designed so that the entire bottom or face of frog rests solidly on seat of frame and can be adjusted for wide or narrow throat opening.

### SMOOTH BOTTOM

SMOOTH

| | Each |
|---|---|
| No. 602—7 inches long, 1⅝-inch cutter, weight 2¼ lbs. | $ 2.80 |
| No. 603—8 inches long, 1¾-inch cutter, weight 3 lbs. | 3.00 |
| No. 604—9 inches long, 2-inch cutter; weight 3½ lbs. | 3.20 |
| No. 604½—10 inches long, 2⅜-inch cutter; weight 4¾ lbs. | 3.80 |

JACK

| | Each |
|---|---|
| No. 605—14 inches long; 2-inch cutter, weight 4¾ lbs. | $ 3.80 |
| No. 605½—15 inches long, 2¼-inch cutter, weight 6 lbs. | 4.30 |

FORE

| | Each |
|---|---|
| No. 606—18 inches long; 2⅝-inch cutter; weight 7 lbs. | $ 4.90 |

JOINTER

| | Each |
|---|---|
| No. 607—22 inches long, 2⅝-inch cutter; weight 8 lbs. | $ 5.60 |
| No. 608—24 inches long, 2⅝-inch cutter, weight 9½ lbs. | 6.70 |

### CORRUGATED BOTTOM

SMOOTH

| | Each |
|---|---|
| No. 602C—7 inches long; 1⅝ inch cutter; weight 2¼ lbs. | $ 2 80 |
| No. 603C—8 inches long, 1¾ inch cutter, weight 3 lbs. | 3 00 |
| No. 604C—9 inches long, 2 inch cutter; weight 3½ lbs. | 3.20 |
| No. 604½C—10 inches long, 2⅜-inch cutter; weight 4¾ lbs. | 3.80 |

JACK

| | Each |
|---|---|
| No. 605C—14 inches long, 2-inch cutter; weight 4¾ lbs. | $ 3 80 |
| No. 605½C—15 inches long; 2¼-inch cutter; weight 6 lbs. | 4.30 |

FORE

| | Each |
|---|---|
| No. 606C—18 inches long; 2⅝-inch cutter; weight 7 lbs. | $ 4.90 |

JOINTER

| | Each |
|---|---|
| No. 607C—22 inches long; 2⅝-inch cutter; weight 8 lbs. | $ 5.60 |
| No. 608C—24 inches long; 2⅝-inch cutter; weight 9½ lbs. | 6.70 |

Packed, one in cardboard box.

## STANLEY ADJUSTABLE WOOD BENCH PLANES

Black japanned iron frame; varnished beechwood block; varnished hardwood knob and handle; best forged steel cutter; lateral lever adjustment.

UNHANDLED, SMOOTH

| | Each |
|---|---|
| No. 122—8 inches long, 1¾-inch cutter; weight 2¼ lbs. | $ 1.46 |

HANDLED, SMOOTH

| | Each |
|---|---|
| No. 135—10 inches long; 2⅛-inch cutter; weight 3 lbs. | $ 1 90 |

JACK

| | Each |
|---|---|
| No. 127—15 inches long; 2⅛-inch cutter; weight 3½ lbs. | $ 1.72 |

FORE

| | Each |
|---|---|
| No. 129—20 inches long, 2⅜ inch cutter; weight 4¾ lbs. | $2.20 |

JOINTER

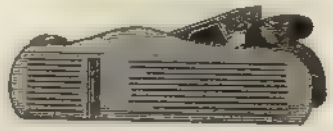
| | Each |
|---|---|
| No. 132—26 inches long; 2⅝-inch cutter; weight 6 lbs. | $ 2.50 |

Packed, one in package.

## SEIGLEY ADJUSTABLE IRON BENCH PLANES

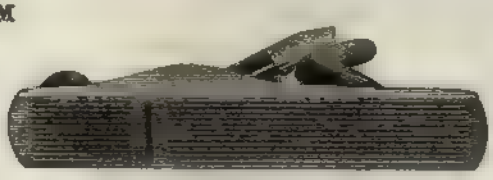
Black japanned frame; polished face and sides; high grade heavy taper tool steel blades; thoroughly seasoned varnished and stained knob and handle; brass screws; lateral and longitudinal lever and screw adjustments.

### CORRUGATED BOTTOM



SMOOTH

| | Each |
|---|---|
| No. S3LC—8 inches long; 1¾-inch cutter; weight 3¼ lbs..... | $ 2.20 |
| No. S4LC—9 inches long; 2-inch cutter; weight 3¾ lbs. ... | 2.40 |
| No. S4½LC—10 inches long; 2⅜-inch cutter; weight 5 lbs..... | 2.90 |



| JACK | Each |
|---|---|
| No. S5LC—14 inches long; 2-inch cutter; weight 4¾ lbs..... | $ 2 80 |
| No. S5½LC—18 inches long; 2¼-inch cutter, weight 6¼ lbs.. | 3.10 |
| **FORE** | **Each** |
| No. S6LC—18 inches long; 2⅜-inch cutter; weight 7½ lbs.... | $ 3 50 |
| **JOINTER** | **Each** |
| No. S7LC—22 inches long; 2⅜-inch cutter; weight 8 lbs..... | $ 4 10 |
| No. S8LC—24 inches long; 2⅜-inch cutter; weight 9½ lbs . . | 4 80 |

Packed, one in cardboard box.

## OHIO IRON BLOCK PLANES

Black japanned body; polished face and sides; blades are forged from high grade tool steel, especially adapted to this purpose, and are thicker at cutting edge, which prevents trembling of plane iron and insures a clear cut.

No. 0102

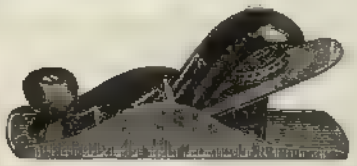
Not adjustable.

| | Each |
|---|---|
| No. 0102—5½ inches long; 1¾-inch cutter; weight ⅞ lb..... | $ 0.42 |

With lever adjustment.

| | Each |
|---|---|
| No. 0103—5½ inches long; 1¾-inch cutter; weight ⅞ lb..... | $ 0.54 |

No. 0103

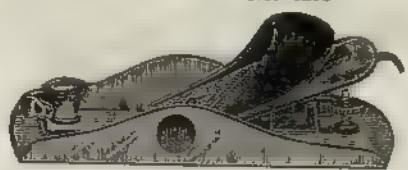


Not adjustable, with polished hardwood knob.

| | Each |
|---|---|
| No. 0110—7½ inches long, 1¾-inch cutter; weight 1¼ lbs .. ..... | $ 0 52 |

Lever adjustment, with polished hardwood knob.

| | Each |
|---|---|
| No. 0120—7½ inches long, 1¾-inch cutter; weight 1¼ lbs..... | $ 0.72 |



Japanned trimmings; with screw, lever and throat adjustments.

| | Each |
|---|---|
| No. 09½—6 inches long; 1¾-inch cutter; weight 1⅛ lbs..... | $ 1.22 |
| No. 015—7 inches long; 1¾-inch cutter; weight 2 lbs..... | 1.30 |

Packed, one in cardboard box.

## STANLEY BAILEY IRON BLOCK PLANES

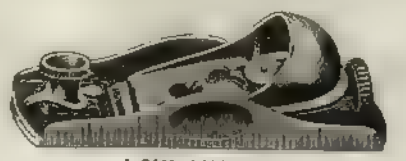
Black japanned frame; polished face and sides, cutters made of best quality English steel, ground and tempered, and honed ready for use.

Japanned trimmings, with screw lever and throat adjustments.

| | Each |
|---|---|
| No. 9½—6 inches long; 1¾-inch cutter, weight 1⅛ lbs . ..$ | 1.22 |
| No. 15—7 inches long, 1¾-inch cutter; weight 1¾ lbs ... . | 1.50 |

Nickel plated trimmings, with screw, lever and throat adjustments.

| | Each |
|---|---|
| No. 16—6 inches long, 1¾-inch cutter, weight 1⅛ lbs.. . .. $ | 1.56 |
| No 17—7 inches long; 1¾ inch cutter; weight 1⅜ lbs.. | 1 70 |



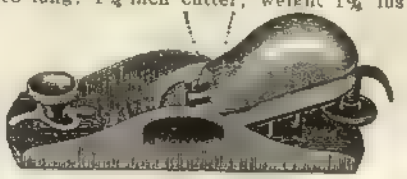
LOW ANGLE

Japanned trimmings; with screw and throat adjustments.

| | Each |
|---|---|
| No. 60½—6 inches long; 1⅜ inch cutter; weight 1 lb. .... | $1 34 |
| No. 65½—7 inches long, 1⅝-inch cutter; weight 1⅛ lbs..... | 1.56 |

Nickel plated trimmings; with screw and throat adjustments.

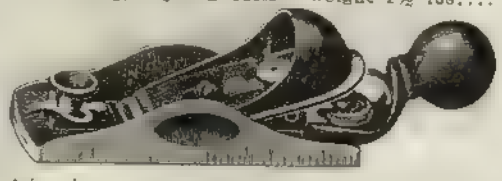
| | Each |
|---|---|
| No. 60—6 inches long; 1⅜-inch cutter; weight 1¼ lbs.....$ | 1.56 |
| No 65 7 inches long, 1⅝-inch cutter weight 1½ lbs.... | 1.70 |



KNUCKLE JOINT

Nickel plated trimmings; with screw, lever and throat adjustments.

| | Each |
|---|---|
| No. 18—6 inches long; 1¾-inch cutter, weight 1¼ lbs .....$ | 1.60 |
| No. 19—7 inches long, 1¾-inch cutter; weight 1½ lbs. ..... | 1.74 |



Japanned trimmings, with screw, lever and throat adjustments; rosewood handle.

| | Each |
|---|---|
| No. 9¾—6 inches long; 1¾-inch cutter; weight 1¾ lbs..... $ | 1.70 |

Packed, one in cardboard box.

# STANLEY PLANES

## IRON BLOCK

Black japanned body; polished face and sides; best forged steel cutters

Without handle; not adjustable.

| | Each |
|---|---|
| No. 101—3½ inches long; 1-inch cutter; weight ¼ lb.. | ....$ 0.22 |

With handle; not adjustable.

| | Each |
|---|---|
| No. 100—3½ inches long, 1-inch cutter, weight ⅜ lb ... | .$ 0 30 |

Not adjustable.

| | Each |
|---|---|
| No. 102—5½ inches long, 1⅝-inch cutter, weight ¾ lb. | ...$ 0.42 |

With lever adjustment.

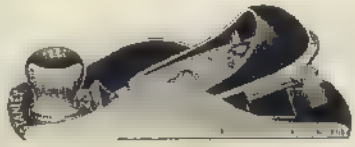
| | Each |
|---|---|
| No. 103—5½ inches long; 1¾-inch cutter; weight ⅞ lb. | . .$ 0.60 |

Not adjustable; with applewood knob, stained black.

| | Each |
|---|---|
| No. 110—7½ inches long, 1⅝-inch cutter; weight 1¼ lbs..... | $ 0.62 |

Screw adjustment; with polished hardwood knob.

| | Each |
|---|---|
| No. 203—5½ inches long; 1⅝-inch cutter; weight 1⅞ lbs..... | $ 1.00 |



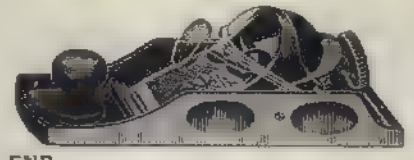
| | Each |
|---|---|
| No. 220—7½ inches long, 1⅝-inch cutter; weight 1½ lbs..... | $ 1.00 |

### DOUBLE END

Not adjustable; with polished hardwood knob.

| | Each |
|---|---|
| No. 130—8 inches long; 1⅝-inch cutter; weight 1⅝ lbs..... | $ 1.00 |

This plane has two slots and two cutter seats. The center seat and slot to be used for ordinary block plane work, the other slot and seat for use when it is desired to work same as a bull nose plane.



Screw adjustment; with polished hardwood knob.

| | Each |
|---|---|
| No. 131—8 inches long; 1⅝-inch cutter; weight 1½ lbs..... | $ 1.70 |

This plane is a combination block and bull nose plane; it has two slots and a movable cutter seat. Use center seat and slot for ordinary block plane work. For use as a bull nose plane remove the cap and cutter, reverse the cutter seat by throwing over the adjusting wheel, replace the cap and cutter in the new position. The plane has the handy feature.

Packed, one in cardboard box.

### LOW ANGLE

Throat and screw adjustments; polished hard wood knob and handle.

| | Each |
|---|---|
| No. 62—14 inches long; 2-inch cutter; weight 3⅝ lbs. ..... | $ 3.70 |

This plane is especially adapted for cutting across the grain in heavy work, where more power is required than can be obtained by the use of the ordinary block plane, and is designed to be operated with both hands

## ADJUSTABLE STEEL BENCH

Black japanned pressed steel frame; nonbreakable; best forged steel double cutters; screw and lever adjustments, varnished hardwood knob and handle.

### SMOOTH

| | Each |
|---|---|
| No. 104—9 inches long; 2⅛-inch cutter; weight 3 lbs. ..... | $ 2.56 |

### JACK

| | Each |
|---|---|
| No. 105—14 inches long; 2⅜-inch cutter; weight 4 lbs. ..... | $ 3.30 |

## FANCY ADJUSTABLE

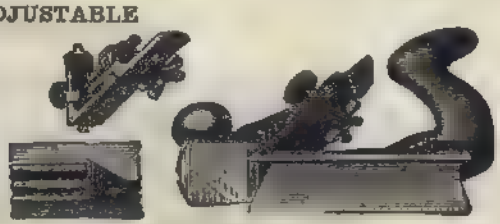
### IMPROVED SCRUB

Japanned cast iron frame and clamps; tempered and polished tool steel cutters; with rounded cutting edge; beechwood handle and knob.

| | Each |
|---|---|
| No. 40—9½ inches long; 1⅝-inch cutter; weight 2⅛ lbs ..... ... ....$ | 1.46 |

This plane has a single iron, with cutting edge rounded, and is particularly adapted for roughing down work, before using a jack or other planes

Packed, one in cardboard box.



### CHAMFER

Japanned cast iron frame and cap, tempered and polished tool steel blade; rosewood handle and knob, has 90 degree V bottom which acts as mitre guide

| | Each |
|---|---|
| No. 72½—9 inches long; 1⅝-inch cutter; with six moulding cutters; weight 4⅛ lbs. ..... | $ 4.40 |

This plane has movable front section, which can be firmly secured to rear section by thumb screw; will do perfect chamfer and stop chamfer work at all widths.

# STANLEY FANCY ADJUSTABLE PLANES

## SIDE RABBET

Nickel plated; rosewood knobs.

| RIGHT HAND | Each | LEFT HAND | Each |
|---|---|---|---|
| No. 98—4 inches long; ½-inch cutter; weight ½ lb. | $ 1.28 | No. 99—4 inches long; ½-inch cutter; weight ½ lb. | $ 1.28 |

Used for side rabbeting and trimming dadoes, moldings and grooves of all sorts. The reversible nose piece gives the tool a form by which it will work close up into corners when required

Packed, one in cardboard box.

## BULL NOSE RABBET

Japanned trimmed; not adjustable; iron stock.

| | Each |
|---|---|
| No. 75—4 inches long; 1-inch cutter; weight ⅝ lb. | $ 0.50 |

This tool will be found very useful for working close up into corners or other difficult places The mouth can be adjusted for different widths by means of the set screw on top of the plane.

Packed, one in cardboard box.

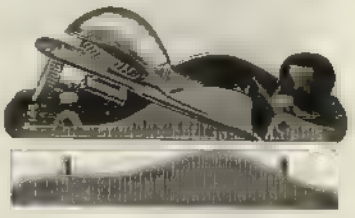
## CABINET MAKERS' RABBET

Nickel plated; with screw adjustment.

| | Each | | Each |
|---|---|---|---|
| No. 90—4 inches long; 1-inch cutter; weight 1 lb. | $ 2.76 | No. 93—6½ inches long, 1-inch cutter, weight 1⅝ lbs | $ 3 40 |
| No. 92—5½ inches long; ⅞-inch cutter; weight 1½ lbs. | 2.80 | No. 94—7½ inches long, 1¼-inch cutter, weight 2 lbs | 4 00 |

These planes are for fine cabinet or other work where extreme accuracy is required; the sides and bottom being square with each other, the plane will lie perfectly flat on either side and can be worked either right or left hand; adjustable throat, this means that the width of the throat opening or mouth can be widened or narrowed as coarse or fine work may require, they are also fitted with a side groove or handy grip feature; the cutters are adjustable endwise; No. 90 is of the bull nose pattern so it can be used up into corners or other difficult places.

Packed, one in cardboard box.



## RABBET AND BLOCK

Japanned cast iron frame and cap; tempered and polished tool steel cutter; rosewood knob; with screw adjustment.

| | Each |
|---|---|
| No. 140—7 inches long; 1⅝-inch cutter; weight 1½ lbs. | $ 1.76 |

Detachable side permits easy change of tool from block plane to a rabbet plane, or vice versa; cutter is set on a skew.

Packed, one in cardboard box.

## CARRIAGE MAKERS' RABBET

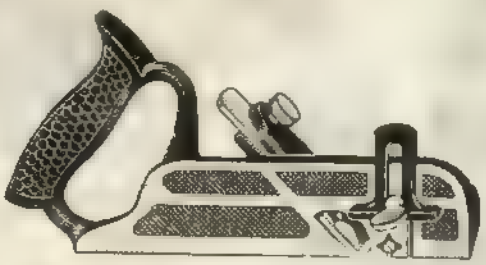
Bailey

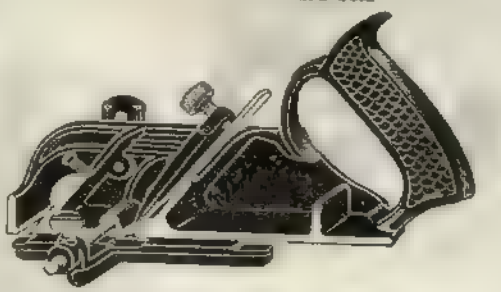
Japanned cast iron frame and cap; tempered and polished tool steel cutter; rosewood handle and knob.

With Screw and Lever Adjustment.

| | Each |
|---|---|
| No. 10½—9 inches long; 2⅛-inch cutter; weight 3 lbs. | $ 3 50 |
| No. 10—13 inches long; 2⅛-inch cutter; weight 4¼ lbs. | 4.10 |

Packed, one in cardboard box.





Cast iron frames and caps; tempered and polished tool steel cutters.

## HANDLED IRON RABBET

| | Each |
|---|---|
| No. 190—8 inches long; 1½-inch cutter; weight 2½ lbs. | $ 1.70 |
| No. 191—8 inches long; 1¼-inch cutter; weight 2¼ lbs. | 1.70 |
| No. 192—8 inches long; 1-inch cutter; weight 2 lbs. | 1.70 |

These planes will lie perfectly flat on either side, and can be used with right or left hand equally well while planing into corner or up against perpendicular surfaces.

Packed, one in cardboard box.

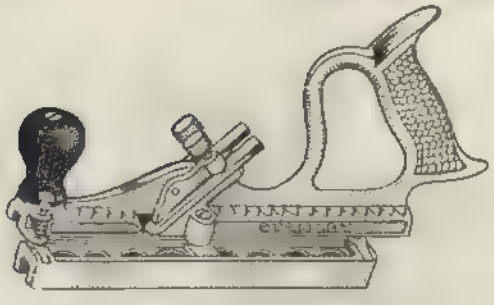
## DUPLEX FILLETSTER AND RABBET

| | Each |
|---|---|
| No. 78—8½ inches long; 1½-inch cutter, weight 3 lbs | $ 2 20 |

This plane has two seats for the cutter, one for the regular work and the other where a bull nose is required; it has a spur and a removable depth gauge; adjustable fence can be used on either side and slides under the bottom regulating the width of the cut; to work same as a rabbet plane, remove fence and irons

Packed, one in cardboard box.

# STANLEY FANCY ADJUSTABLE PLANES



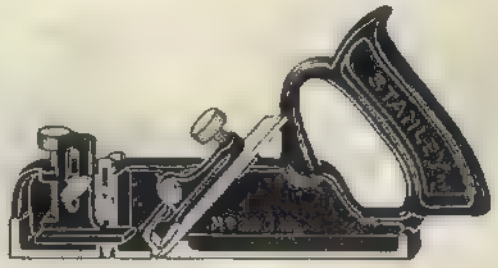
### SWINGING FENCE MATCH

Cast iron frame and caps; tempered and polished tool steel cutter; nickel plated; rosewood knob.

| | Each |
|---|---|
| No. 48—10½ inches long; for boards ⅝ to 1¼ inches thick; weight 3¾ lbs. | $ 3.50 |

This plane has two plow cutters of the same width, and one extra wide cutter, the fence is in one setting, exposes two cutters for cutting the tongue, and when reversed, leaves only one exposed for cutting groove; on thicker boards than the plane works on center, the extra wide cutter is substituted for groove cutter when cutting tongue.

Packed, one in cardboard box.



### IRON DADO

Japanned cast iron frame and clamps; tempered and polished tool steel cutter; length 8 inches.

| No. 39—Width cut, inches | ⅜ | ½ | ⅝ | ¾ |
|---|---|---|---|---|
| Weight, lbs. | 1¾ | 1⅞ | 2 | 2¼ |
| Each | $2 10 | 2.10 | 2.10 | 2.10 |

The cutter is set on a skew plane, is fitted with a depth gauge, adjustable by thumb screw, also has two spurs which can be adjusted to take up wear as well as for depth of cut.

Packed, one in cardboard box.

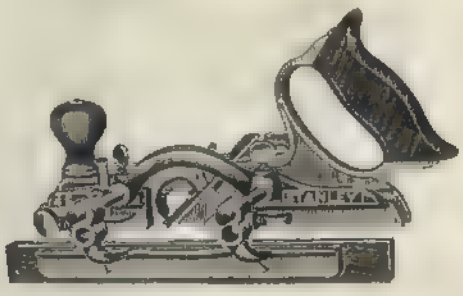
### HANDLED FLOOR

Japanned cast iron frame and cap; nickel plated knob and lever screw; tempered and polished tool steel cutter.

| | Each |
|---|---|
| No. 74—10½ inches long; 2⅝-inch cutter; length of handle 45 inches; weight 21½ lbs. | $ 7 00 |

This tool is designed for planing floors, bowling alleys, skating rinks, decks of vessels, etc.; handle is made of hardwood, with double grips; this permits the plane to be worked from a standing position.

Packed, one in cardboard box



### PLOW, DADO, FILLETSTER AND MATCHING

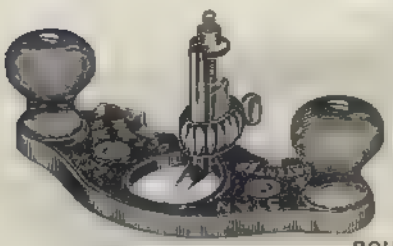
Nickel plated cast iron frame; tempered and polished tool steel cutters; rosewood handle and knob.

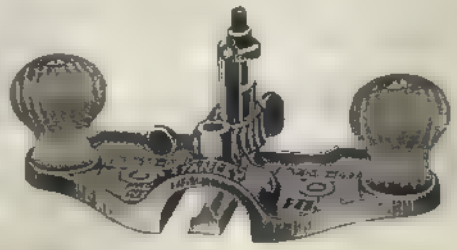
| | Each |
|---|---|
| No. 46—10½ inches long; with 11 cutters, weight 5¾ lbs. | $ 7.50 |

The cutters comprise 8 plow and dado bits, ⅛, ⅛, ¼, ⅜, ½, ⅝, ⅞ and 1¼-inch; a 1½-inch filletster cutter, ¼-inch tonguing tool, and a slitting cutter.

Skew cutters are the feature of this plane; it consists of a main stock carrying a spur, a depth gauge and a slitting cutter, a sliding section carrying a spur and forming an extra sole for the plane, and a fence (rosewood face), which can be set for either plow or filletster work.

Packed one in cardboard box





### ROUTER PLANES

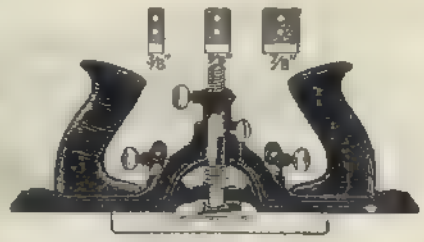
Stanley

Nickel plated cast iron frame; tempered and polished tool steel cutter; rosewood handles

| With Closed Throat | Each | With Open Throat | Each |
|---|---|---|---|
| No. 71½—7½ inches long; with ¼ and ½ inch cutter; weight 2⅛ lbs. | $ 2.15 | No. 71—7½ inches long; with ⅛ and ⅜-inch cutter, weight 2⅝ lbs. | $ 2 70 |

These planes are for surfacing the bottom of grooves or other depressions parallel with the general surface of the work; they are made in two styles differing in the form of throat; the closed throat is the ordinary form of router plane; the open throat improved design, giving more freedom for chips and a better view of the work and cutter; a ¼ and ½-inch cutter are furnished with each plane; cutters have screw adjustment.

Packed, one in cardboard box.




### DOOR TRIM PLANE

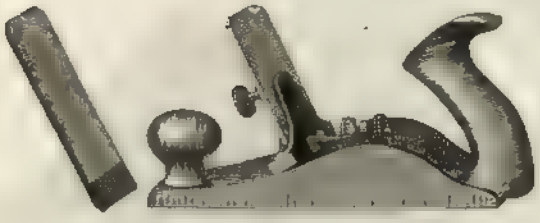
Japanned cast iron frame; nickel plated trimmings, rosewood handles

| | Each |
|---|---|
| No. 171—11 inches long; with ⅜, ⅝ and ⅞-inch cutters weight 3 lbs. | $ 4.00 |

This plane will make a mortise for butts, face plates, strike plates, escutcheons, etc.; is also a router plane; the cutter can be instantly set to work from either end or across plane; a fence regulates position of cut and insures its sides being parallel; a positive stop governs depth of cut.

Packed, one in cardboard box.

# STANLEY FANCY ADJUSTABLE PLANES



## SINGLE HANDLE VENEER SCRAPER

Japanned cast iron frame; tempered and polished tool steel cutter; rosewood handle and knob.

| | Each |
|---|---|
| No. 112—9 inches long, 3-inch cutter; weight 4 lbs | .$ 2.90 |

This tool is used for scraping and finishing veneers or cabinet work.

Packed, one in cardboard box

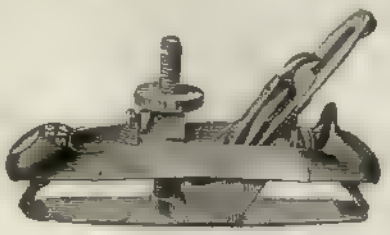
## DOUBLE END MATCH

Nickel plated cast iron frame, handles and cap; tempered tool steel cutter.

| | Each |
|---|---|
| No. 148—9 inches long, 7/8-inch cutter; weight 2¾ lbs | .$ 2.90 |

Cuts ¼-inch groove, on board ¾ to 1 inch, centers on ⅞ inch. This tool is provided with both tongue and groove irons; with one side a tongue can be cut, and by reversing ends the plane will cut a groove to fit; tonguing tools are made wider on one side for use on thicker stuff than the plane will tongue and groove in the center

Packed, one in cardboard box



## CIRCULAR

Cast iron frame, caps and handles, tempered tool steel cutters polished spring cutters, screw and lever adjustment, can be adjusted to work on concave or convex surface

### STANLEY

No. 113—10 inches long; 1¾-inch cutter; weight 3½ lbs.....$ 4.00

These planes have flexible steel faces which can be accurately adjusted for planing the inside or outside of circles; the cutters are the same and have the same adjustment as the Bailey and bedrock planes; a valuable feature is a graduated scale for setting the face

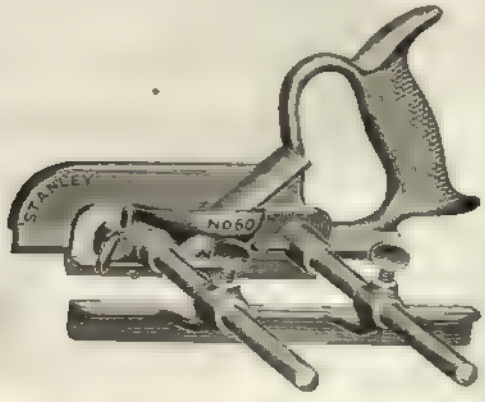
Packed, one in cardboard box.

### VICTOR

| Japanned Frame and Cap | Each |
|---|---|
| No. 20½—10 inches long; 1¾-inch cutter; weight 4 lbs | .$ 4.50 |
| **Nickel Plated Frame and Cap** | |
| No. 20—10 inches long; 1¾-inch cutter; weight 4 lbs | .$ 5.40 |

This is a more recent and improved design; the face is fastened at each end to the plane body and adjusted by a screw at the center; this construction gives great strength and accuracy; fewer number of working parts having lost motion gives greater solidity which makes the plane work more smoothly; the design of the frame provides convenient and firm handles for both hands.

Packed, one in cardboard box




## PLOW BEADING AND MATCHING

Nickel plated, cast iron frames and cap, tempered and polished tool steel cutters

| | Each |
|---|---|
| No. 50—9¾ inches long; 15 cutters; weight 3½ lbs | .$ 6.50 |

The cutter comprises 7 plow and dado bits, ⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½ and ⅝ inch; 7 beading tools, ⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½ inch; and a ¼-inch tonguing tool. This is a very handy tool for light work; consisting of a main stock, carrying a spur and depth gauge and forming a support for one side of the cutter; a sliding section, carrying a spur and forming a support for the other side of the cutter, and a fence with a 5-inch adjustment; the handle is metal, being a part of the main stock.

Packed, one in cardboard box

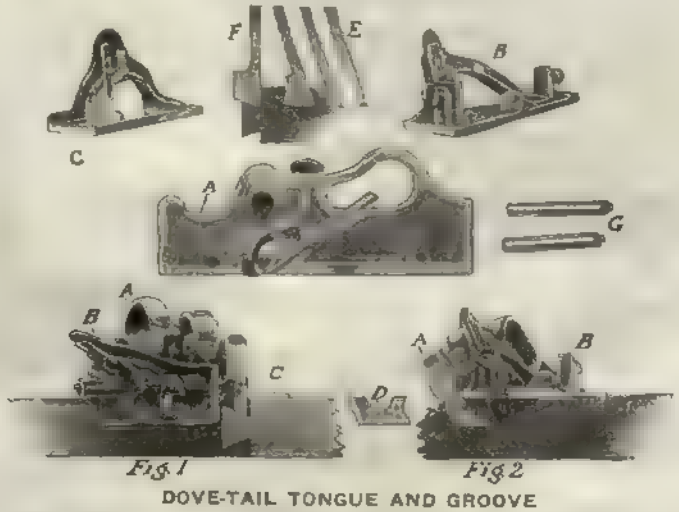



Fig 1 Fig 2

## DOVE-TAIL TONGUE AND GROOVE

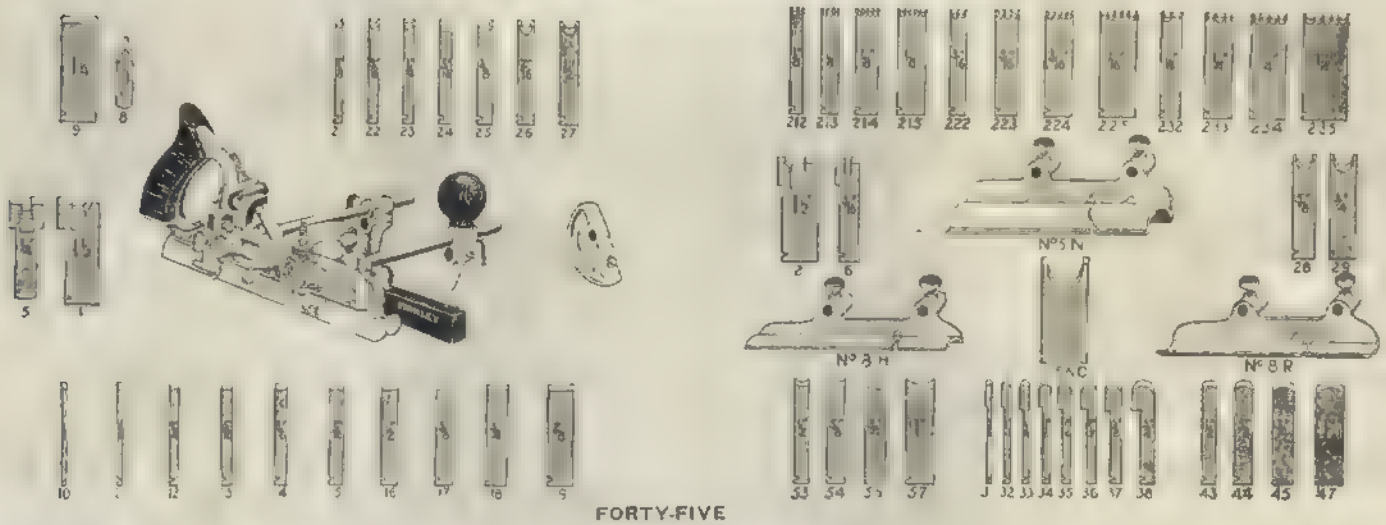
Nickel plated cast iron frame and handle; tempered and polished tool steel cutter.

| | Each |
|---|---|
| No. 444—9 inches long, weight 6½ lbs | ...$ 8 50 |

This tool cuts both tongue and groove for dove-tail work; 4 cutters are furnished with each plane, three of which are for cutting grooves of different sizes, and one for cutting tongues of any size

Packed, one in wood box.

# STANLEY FANCY ADJUSTABLE PLANES



## FORTY-FIVE

Seven tools in one, in compact and practical form, viz beading and center beading plane plow, dado, rabbet and fillester match planes, sash planes, slitting planes The plane has two principal parts, a main stock and a sliding section, the main stock carries a handle, cutter adjustment, a slitting tool, a depth gauge and forms a bearing for one edge of the cutter the sliding section slides on two arms secured in the stock and has a bearing for the other edge allowing cutters of different widths to be used, a fence also slides on these arms for use on working as a plow, beader or fillester to gauge the distance from the cutter to the edge of the board, and to keep the cutter at right angles to same when used as a fillester, the fence slides under the bottom of the plane and determines the width of the cutter exposed to the work, the plane is fitted with spurs for use across the plane, and so forth and can be used either right or left hand with each plane are furnished 21 cutters, all of which are shown in the cut, the cutters together with the plane are packed in a neat steel box all parts are nickel plated, the handle, knob and fence are made of selected rosewood

For beading at a distance from the edge of a board attach cam rest to the front arm between the sliding section and fence to prevent the fence sagging; in certain work attach same to the rear arm to prevent the plane from rocking. Each

No. 45—Length 11 inches; with 21 cutters; weight 8½ lbs. ..... $10.60

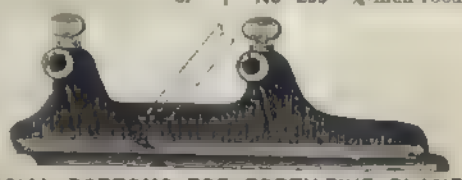
Packed, one in cardboard box

### THE FOLLOWING CUTTERS FURNISHED WITH EACH PLANE:

| | Each |
|---|---|
| No. 1—1½ inch sash tool | $ 0 75 |
| No. 6—¾-inch match tool | .75 |
| No. 8—Slitting tool | .45 |
| No. 9—1¼-inch fillet stter | .37 |
| No. 10 [illegible] inch plow and dado tool | .22 |
| No. 11 [illegible] inch plow and dado tool | .22 |
| No. 12 [illegible] inch plow and dado tool | 22 |
| No 13—[illegible] inch plow and dado tool | .22 |
| No. 14—⅝ inch plow and dado tool | 30 |
| No. 15 [illegible] inch plow and dado tool | 30 |
| No. 16—½ inch plow and dado tool | 30 |
| No. 17—⅝-inch plow and dado tool | .30 |
| No. 18—¾-inch plow and dado tool | .30 |
| No. 19—⅞-inch plow and dado tool | .37 |
| No. 21—⅛-inch beading tool | 22 |
| No 22 - [illegible] inch beading tool | 22 |
| No. 23—¼-inch beading tool | .22 |
| No. 24—[illegible]-inch beading tool | .30 |
| No. 25—⅜-inch beading tool | 30 |
| No. 26—[illegible]-inch beading tool | 37 |
| No. 27—⅛-inch beading tool | 37 |

### *SPECIAL CUTTERS FOR FORTY-FIVE PLANE

| | Each |
|---|---|
| No. 2—1⅛-inch tool | $ 0.75 |
| No. 6—[illegible]-inch match tool | .75 |
| No. 28—⅛-inch beading tool | .45 |
| No. 29—[illegible] inch beading tool | 45 |
| No. 31—[illegible]-inch fluting tool | .45 |
| No. 32—¼-inch fluting tool | .45 |
| No. 33—[illegible]-inch fluting tool | .45 |
| No. 34—⅜-inch fluting tool | .45 |
| No. 35—[illegible] inch fluting tool | .45 |
| No. 36 [illegible] inch fluting tool | 45 |
| No. 37—⅝-inch fluting tool | 45 |
| No. 38—¾-inch fluting tool | 45 |
| No. 212—⅛-inch reeding tool, 2 beads | 30 |
| No. 213—⅛-inch reeding tool, 3 beads | .45 |
| No. 214—⅛-inch reeding tool, 4 beads | 60 |
| No. 215—⅛-inch reeding tool, 5 beads | 75 |
| No. 222—[illegible]-inch reeding tool, 2 beads | .30 |
| No. 223—[illegible]-inch reeding tool, 3 beads | 45 |
| No 224 [illegible] inch reeding tool, 4 beads | 60 |
| No. 225—[illegible]-inch reeding tool, 5 beads | 75 |
| No. 232—¼-inch reeding tool, 2 beads | 30 |
| No. 233—¼-inch reeding tool, 3 beads | 45 |
| No. 234—¼-inch reeding tool, 4 beads | 60 |
| No 235—¼-inch reeding tool, 5 beads | 75 |



### SPECIAL BOTTOMS FOR FORTY-FIVE PLANE

Japanned cast iron; polished face, steel set screw.

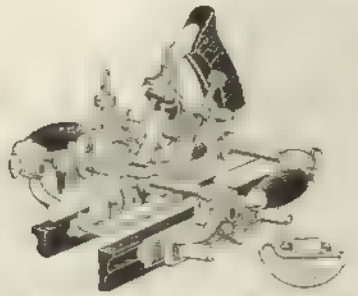
| Nos. | 6 | 8 | 10 | 12 |
|---|---|---|---|---|
| Width cutter, inches | ⅜ | ⅝ | ¾ | 1 |
| Works circle, inches | ¾ | 1 | 1¼ | 1½ |
| Weight, lbs. | 1⅝ | 1¾ | 1⅞ | 2½ |
| Pair | $2 00 | 2 00 | 2 00 | 2 00 |

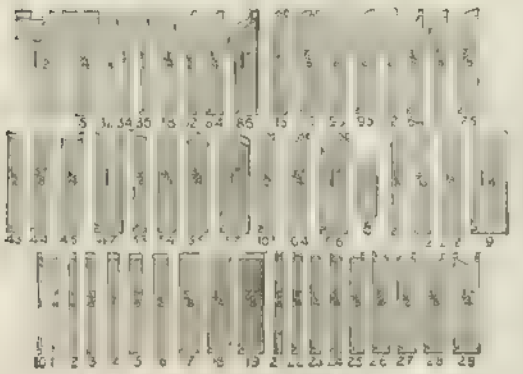
A hollow and its cutters will form a round on the moulding being worked; a round and its cutters will form a hollow a nosing tool and its cutters will form what might be called an exaggerated round it is very largely used for shaping the edges of stair treads hollows and rounds are made in four sizes and are usually sold in sets a set comprising one hollow, one round and two cutters the price of a nosing tool includes one cutter, in order to work hollows and rounds or a nosing cutter in the No. 45 plane it is necessary to substitute for the sliding section, specially formed bottoms which are called by the same name as the cutters they are designed to carry, that is hollows rounds, or nosing tools.

Packed, one pair in cardboard box

NOTE—Goods marked thus (*) are for factory shipment only

# STANLEY FANCY ADJUSTABLE PLANES



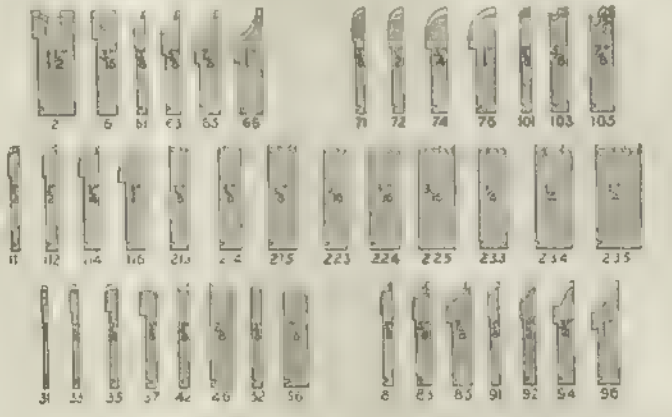


### FIFTY-FIVE

This tool, in addition to being a beading and a center beading, a plow, dado, rabbet, filletster, and match plane, a sash plane, and a slitting plane, is also a superior molding plane; and will accommodate cutters of almost any shape and size; the regular equipment sent with each plane comprises 52 cutters; these cutters, together with the plane and all its attachments, are packed in a neat steel box; cutters of practically any form can be used in the plane, which the owner can make from blanks or order from sketch; all metal parts of the plane are nickel plated; the handle and fences are made of selected rosewood, and every part is well finished.

| | Each |
|---|---|
| No. 55 Length 11 inches; with 52 cutters; weight 14½ lbs | $23 00 |

Packed, one in cardboard box



### THE FOLLOWING CUTTERS FURNISHED WITH EACH PLANE:

| | Each |
|---|---|
| No. 1—1½-inch sash tool | $ 0 75 |
| No. 5—¼-inch match tool | .75 |
| No. 8—Slitting tool | .45 |
| No. 9—1¼-inch filletster | .37 |
| No. 10—⅛-inch plow and dado tool | .22 |
| No. 11—3/16 inch plow and dado tool | .22 |
| No. 12 ¼-inch plow and dado tool | 22 |
| No. 13—5/16-inch plow and dado tool | .22 |
| No. 14—⅜-inch plow and dado tool | .30 |
| No. 15—7/16-inch plow and dado tool | .30 |
| No. 16—½-inch plow and dado tool | .30 |
| No 17 9/16-inch plow and dado tool | .30 |
| No. 18 ⅝ inch plow and dado tool | .30 |
| No. 19—11/16-inch plow and dado tool | .37 |
| No. 21 ⅛ inch bead ng tool | 22 |
| No. 22 3/16 inch bead.ng tool | 22 |
| No 23 ¼ inch bead.ng tool | 22 |
| No. 24—5/16-inch beading tool | .30 |
| No. 25—⅜-inch beading tool | .30 |
| No. 26—7/16-inch beading tool | .37 |
| No. 27 ½ inch beading tool | .37 |
| No. 28—9/16-inch beading tool | .45 |
| No. 29—⅝-inch beading tool | .45 |
| No. 32—¼-inch fluting tool | .45 |
| No. 34 ⅜ inch flut ng tool | .45 |
| No. 36 ½ inch flut ng tool | 45 |
| No. 38—⅝-inch fluting tool | .45 |
| No. 43—½-inch hollow | .30 |
| No. 44—⅝-inch hollow | .30 |
| No. 45—¾-inch hollow | .30 |
| No. 47—1-inch hollow | .30 |
| No 53 ½ inch round | 30 |
| No. 54 ⅝ inch round | .30 |
| No. 55 ¾ inch round | .30 |
| No. 57—1-inch round | .30 |
| No. 62—½-inch quarter hollow | .67 |
| No. 64 ¾ inch quarter hollow | .75 |
| No. 73—⅝-inch quarter round | .67 |
| No. 75—⅞-inch quarter round | .75 |
| No. 82—½-inch reverse Ogee | .67 |
| No 84 ¾ inch reverse Ogee | .75 |
| No. 86 1-inch reverse Ogee | .75 |
| No 93 ⅝ inch Roman Ogee | 67 |
| No. 95 ⅞ inch Roman Ogee | .75 |
| No. 102—½-inch Grecian Ogee | .67 |
| No. 104—¾-inch Grecian Ogee | .75 |
| No. 106 1-inch Grecian Ogee | 75 |
| No. 113—⅝-inch quarter round with bead | .67 |
| No. 115—⅞ inch quarter round with bead | .75 |
| No. 212—⅛-inch reeding tool, 2 beads | .30 |
| No. 222—3/16 inch reeding tool 2 beads | .30 |
| No. 232—¼-inch reeding tool, 2 beads | .30 |

### *SPECIAL CUTTERS FOR STANLEY FIFTY-FIVE PLANE

| | Each |
|---|---|
| No. 2—1½-inch sash tool | $ 0.75 |
| No. 6—¼-inch match tool | 75 |
| No. 31—1/16-inch fluting tool | .45 |
| No. 33—⅛ inch fluting tool | 45 |
| No. 35—3/16-inch fluting tool | 45 |
| No. 37—¼-inch fluting tool | 45 |
| No. 42—⅜-inch hollow | .30 |
| No. 46—7/16-inch hollow | .30 |
| No. 52 ⅜ inch round | .30 |
| No. 56—7/16 inch round | .30 |
| No. 61 ⅜ inch quarter hollow | .67 |
| No. 63 5/16 inch quarter hollow | 67 |
| No. 65 7/16 inch quarter hollow | 75 |
| No. 66—1-inch quarter hollow | .75 |
| No. 71 ⅜-inch quarter round | .67 |
| No. 72 ½ inch quarter round | 67 |
| No. 74—⅝-inch quarter round | .75 |
| No. 76—1-inch quarter round | .75 |
| No. 81 ⅜-inch reverse Ogee | .67 |
| No. 83 5/16 inch reverse Ogee | 67 |
| No. 85—7/16-inch reverse Ogee | .75 |
| No. 91—⅜ inch Roman Ogee | .67 |
| No. 92—½-inch Roman Ogee | .67 |
| No. 94—¾-inch Roman Ogee | .75 |
| No. 96 1-inch Roman Ogee | 75 |
| No. 101—⅜-inch Grecian Ogee | 67 |
| No. 103—½-inch Grecian Ogee | .67 |
| No. 105—7/16-inch Grecian Ogee | .75 |
| No. 111 ⅜-inch ¼ round with bead | .67 |
| No. 112—½-inch ¼ round with bead | .67 |
| No. 114—⅝-inch ¼ round with bead | .75 |
| No. 116—1-inch ¼ round with bead | .75 |
| No. 213—⅛-inch reeding tool, 3 beads | .45 |
| No. 214 3/16 inch reeding tool, 4 beads | .60 |
| No. 215—5/16-inch reeding tool, 5 beads | .75 |
| No. 223—3/16-inch reeding tool, 3 beads | .45 |
| No. 224 ¼-inch reeding tool, 4 beads | .60 |
| No. 225—5/16-inch reeding tool, 5 beads | .75 |
| No. 233—¼-inch reeding tool, 3 beads | .45 |
| No. 234—¼-inch reeding tool, 4 beads | .60 |
| No. 235—5/16-inch reeding tool, 5 beads | .75 |

NOTE—Goods marked thus (*) are for factory shipment only.

# FLOOR AND CABINET SCRAPERS

## DOUBLE HANDLE VENEER SCRAPER PLANES

**Stanley**

Japanned cast iron frame and clamp, steel adjusting screw, tempered and polished tool steel cutters; rosewood handle.

| Japanned Iron Face. | Each | Rosewood Face | Each |
|---|---|---|---|
| No. 12 9½ inches long, 3 inch cutter, weight 3¾ lbs | $ 3 26 | No. 12½—9½ inches long; 3-inch cutter; weight 4 lbs | $ 4 30 |

This tool has double grip handle, which being placed across the center of the tool gives it a good balance, the blades are adjustable endwise and for angle, and can be firmly locked in position desired.

Packed, one in cardboard box.

## ROLLER SCRAPER

**Stanley**

Japanned cast iron frame and clamp; tempered and polished tool steel cutter; beech wood handle.

Doz.

No. 83—9½ inches long; 3-inch cutter, weight each 1¼ lbs. . . . . $16 50

This tool has a roller back of the blade which acts as a support to relieve the strain on the wrist of the workman, handle can be detached for working into corners.

Packed, one-twelfth dozen in cardboard box.

## FLOOR SCRAPERS

**Atkins Perfection**

Malleable iron frame; high grade forged steel cutters; polished nickel plated cross bar; brass ferrule; polished hardwood handle.

Doz.

No. AP 12¼ inches long, 3 inch cutter weight per dozen 11 lbs. $12 50

Packed, one half dozen in cardboard box.

## HANDLE SCRAPERS

**Stanley**

Japanned cast iron frame and clamp; tempered and polished tool steel cutters; raised handles.

Doz.

No. 80—11 inches long; 2⅜-inch cutter; weight each 1⅝ lbs. . $16.00

Packed, one-twelfth dozen in cardboard box

## ADJUSTABLE SCRAPERS

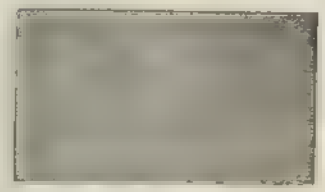
**Stanley**

Japanned cast iron frame and handle shank, tool steel cutter, polished maple handle and knob.

Doz

No. 82 14½ inches long; 3-inch cutter; weight 1¾ lbs. . . . . $17.00

Packed, one in cardboard box



## CABINET SCRAPERS

**Atkins**

Flat steel, oil tempered and full polished.

| Nos. | 2 | 2½ | 3 | 3½ | 4 |
|---|---|---|---|---|---|
| Size, inches | 2x6 | 2½x6 | 3x6 | 3½x6 | 4x6 |
| Weight per dozen, lbs | 1½ | 2 | 2¼ | 3 | 3¼ |
| Dozen | $0.70 | 80 | 90 | 1.10 | 1 20 |

Packed one dozen in cardboard box.

## FLOOR SCRAPERS

**Stearns**

This scraper is intended for use on large surfaces; it is drawn towards the operator and will work into corners and up to the wall, knife is firmly clamped in the scraper which together with the weight of machine prevents vibration and does away with wavy effects on the floor. Mounted on 5-inch rubber tired wheels.

Each

No. 10 Width of cut 6 inches; length of handle and braces 38½ inches; weight 100 lbs. . . $18.00

## UNIVERSAL HAND BEADERS

**Stanley**

Nickel plated cast iron frame and handles; tempered and polished tool steel cutters; raised handle.

Each

No. 66—11½ inches long; with 8 cutters; weight each 1⅜ lbs. . . $ 1.26

This is an excellent tool for beading, reeding or fluting straight or irregular surfaces, and for light routering; with each beader are furnished a square gauge for straight work and oval gauge for curved work, there are also furnished 8 cutters sharpened at both ends and embracing the following assortment: 6 single beads, ⅛, ⅜, ¼, ⅜, ½ and ⅝ inch; 2 fluting tools, ⅜ and ½ inch; 4 reeding tools (2 beads ⅜ inch, 3 beads ¼ inch, 3 beads ½ inch and 4 beads ¼ inch), 2 routers ⅛ and ¼ inch, and a ⅝-inch blank, which latter cutter the owner can file up as he desires.

Packed, one-twelfth dozen in

## PLANE HANDLES

No. B. No. 10. No. 12

| | Each |
|---|---|
| No. B—Varnished rosewood; to fit Bailey iron planes; Nos. 4, 5, 5½, 6, 7 and 8 flat and corrugated bottom; weight per dozen 2¼ lbs. | $ 0 36 |
| | Doz |
| No. 10—Plain finish beechwood; to fit wood jack plane; weight per dozen 2¾ lbs. | $ 1 00 |
| No. 12—Selected beechwood; to fit wood fore or jointer plane, weight per dozen 4 lbs. | 1 50 |

Packed, No. B, one-half dozen in cardboard box; others one dozen in bundle.

## PLANE IRONS

For all iron and wood bottom adjustable bench planes

### OHIO, SINGLE CUT

Made from extra quality crucible steel, tempered by the most improved process.

| No. 0253—Size, inches | 1¾ | 2 | 2¼ | 2⅜ | 2⅝ |
|---|---|---|---|---|---|
| Weight, oz. | 6 | 7 | 10 | 11 | 13 |
| Each | $0 44 | .46 | .52 | .56 | .64 |

Packed, one-half dozen in box

### BAILEY, SINGLE CUT

Made from highest grade tool steel, tempered and polished

| No. 1—Size, inches | 1¾ | 2 | 2⅛ | 2¼ | 2⅜ | 2⅝ |
|---|---|---|---|---|---|---|
| Weight, oz. | 3 | 4 | 4½ | 5 | 5½ | 6 |
| Each | $0.34 | .37 | .42 | .44 | .46 | .48 |

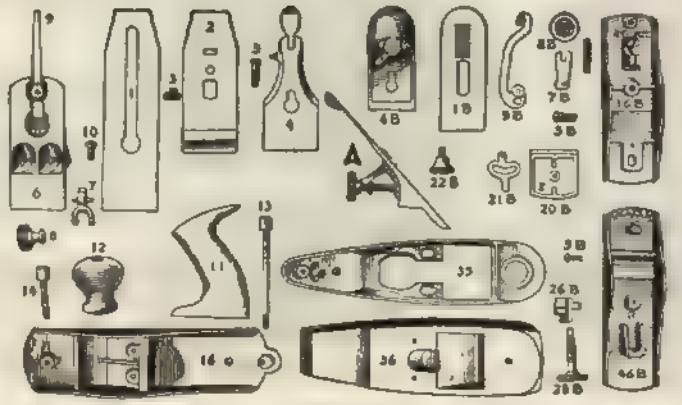
Packed, one-half dozen in box

## SECTIONAL CUTS OF STANLEY PLANES

Iron Bottom

Wood Bottom

## *PLANE REPAIRS



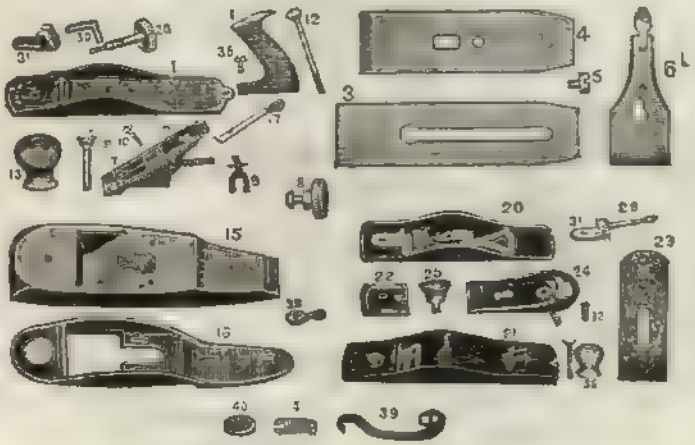
FOR BAILEY AND STANLEY PLANES

For Block Planes

| | |
|---|---|
| No. 1B—Plane iron | No. 20B—Mouthpiece |
| No. 4B—Cap | No. 21B—Eccentric plate |
| No. 5B—Cap screw | No. 22B—Knob |
| No. 7B—Adjusting lever | No. 26B—Adjustable frog |
| No. 8B—Adjusting nut | No. 28B—Adjustable screw |
| No. 9B—Lateral adjustment | No. 46B Bottom |
| No. 16B—Bottom (adjustable throat) | |

For Adjustable Iron and Wood Bottom Planes

| | |
|---|---|
| No. 1—Plane iron | No. 11—Handle |
| No. 2—Plane iron cap | No. 12—Knob |
| No. 3—Plane iron screw | No. 13—Handle bolt and nut |
| No. 4—Cap | No. 14—Knob bolt and nut |
| No. 5—Cap screw | No. 15—Handle screw |
| No. 6—Frog | No. 16—Bottom (iron plane) |
| No. 7—Y adjustment | No. 35—Top casting (wood plane) |
| No. 8—Brass adjusting nut | No. 36—Bottom (wood plane) |
| No. 9—Lateral adjustment | |
| No. 10—Frog screw | |



FOR OHIO PLANES

For Block Planes

| | |
|---|---|
| No. 20—Bottom (adjustable throat) | No. 28—Adjusting lever |
| No. 21—Bottom | No. 30—Sliding lever |
| No. 22—Mouthpiece | No. 31—Adjustable frog |
| No. 23—Plane iron | No. 32—Cap screw |
| No. 24—Cap | No. 34—Knob bolt |
| No. 25—Brass knob | No. 35—Wood knob |
| No. 26—Adjusting screw | No. 38—Throat adjusting lever |

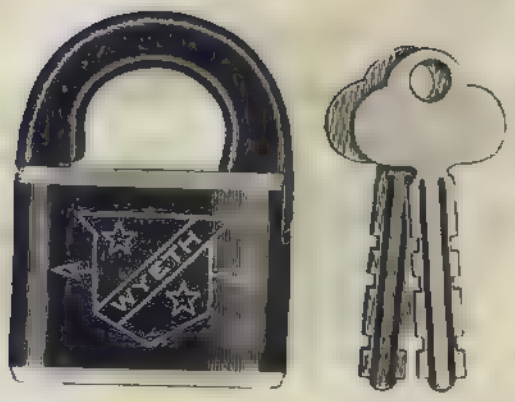
For Adjustable Iron or Wood Bottom Planes

| | |
|---|---|
| No. 1—Bottom (iron plane) | No. 12—Handle bolt |
| No. 3—Plane iron | No. 13—Knob |
| No. 4—Plane iron cap | No. 14—Knob bolt |
| No. 5—Plane iron screw | No. 15—Bottom (wood plane) |
| No. 6—Cap | No. 16—Top casting (wood plane) |
| No. 7—Frog | No. 17—Lateral adjusting lever |
| No. 8—Brass adjusting nut | No. 36—Handle screw |
| No. 9—Y adjusting lever | No. 37—Frog screw |
| No. 10—Cap screw | |
| No. 11—Handle | |

NOTE—Goods marked thus (*) are for factory shipment only

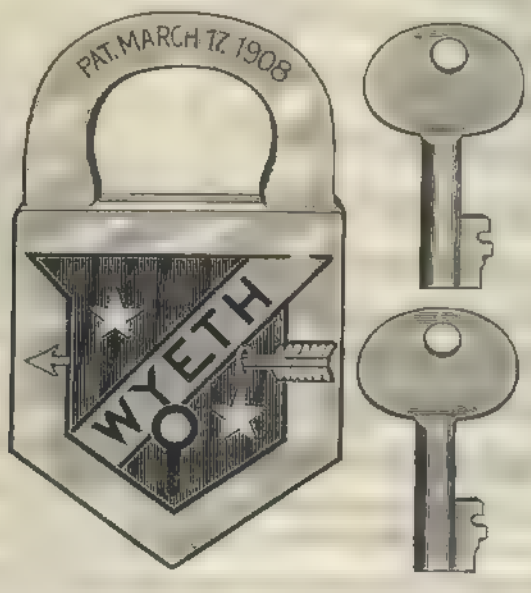
# PADLOCKS

ILLUSTRATIONS FULL SIZE



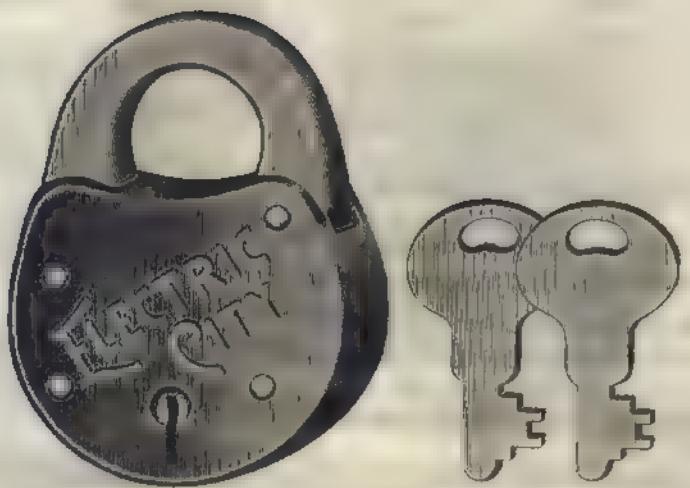

No. 482—Wyeth Junior; 1 1/8-inch seamless armored steel ivory black case; bronze metal top and cap; bronze inside works; self-locking solid steel, black finish spring shackle; two corrugated, nickel plated steel keys; 12 changes; weight per dozen 3 lbs. ..... Doz. $ 7.00

Packed, one-half dozen in box.



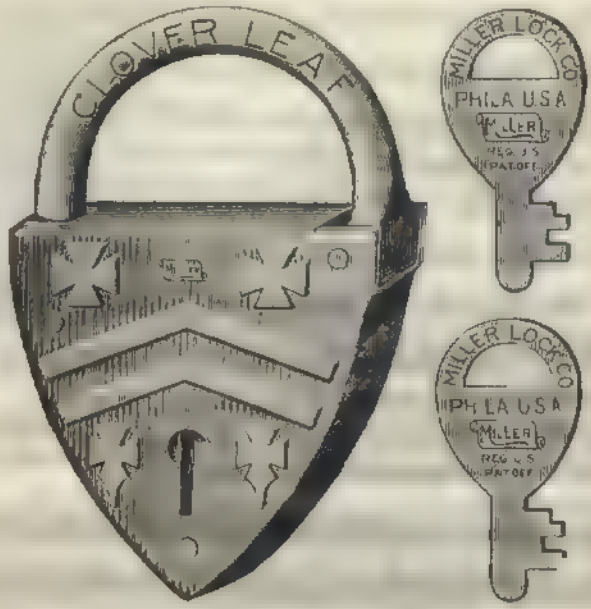

No. 0555W—Wyeth; 2-inch brass case; phosphor bronze springs, self-locking brass shackle; laminated brass bolts lock shackle at heel and nose; three secure and one protecting lever; blue enameled background; two malleable iron barrel keys, all different in a dozen; weight per dozen 7 lbs. ..... Doz. $ 8 00

Packed, one half dozen in box.




No. 2822½—Electric City; 2-inch wrought steel japanned case; self-locking cast, brass plated spring shackle; two flat polished steel keys, all different in a dozen; weight per dozen 3½ lbs. ..... Doz. $ 4.00

Packed, one dozen in box.




No. 250—Clover Leaf; 2⅜-inch wrought steel black japanned case; automatic self-locking, malleable iron spring shackle; two bright nickel plated steel keys, six changes; weight per dozen 3¼ lbs. ..... Doz. $ 2.50

Packed, one-half dozen in box.

## ASSORTMENTS

**Wyeth Special** Contains one full dozen each of the above padlocks mounted on display card, weight per dozen 4 lbs. ..... Ass't $ 6 00

## PADLOCKS

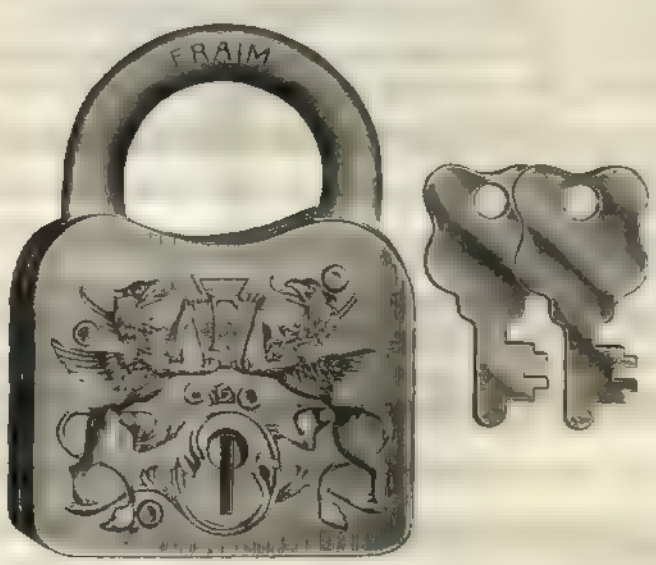
ILLUSTRATIONS FULL SIZE

| | Doz. |
|---|---|
| No. 4133—2½-inch iron ivory black case; self-locking cast, brass plated spring shackle; eight secure levers; two double bitted brass plated, flat bow keys, all different in a dozen; weight per dozen 8 lbs. | $ 6.50 |
| No. 04132—2½-inch brass plain finished case; otherwise same as No. 4133; weight per dozen 8⅝ lbs | 9.50 |

WITH CHAIN

| | Doz. |
|---|---|
| No. 04132C—With 9-inch heavy galvanized chain; otherwise same as No. 04132, weight per dozen 9⅞ lbs | $11.00 |

Packed, one-half dozen in box.




| | Doz |
|---|---|
| No. 597—2¼-inch wrought steel, brass plated case; self-locking malleable iron brass plated spring shackle; three ward levers; six changes; two nickel plated flat steel keys; weight per dozen 4¼ lbs. | $ 2.50 |

Packed, one-half dozen in box

| | Doz |
|---|---|
| No. 839—2¼-inch wrought steel, brass plated case; malleable iron polished spring shackle; five ward levers; double locking bolt; two nickel plated flat steel keys; 48 changes; weight per dozen 5½ lbs. | $ 5.00 |
| No. 839A—Same as No. 839, except with two keys each, all alike; weight per dozen 6½ lbs. | 6.00 |

WITH CHAIN

| | Doz |
|---|---|
| No. 839C—With 10-inch bright chain, otherwise same as No. 839; weight per dozen 6¼ lbs | $ 6.50 |
| No. 839AC—Same as No. 839C, except with two keys each, all alike; weight per dozen 6¼ lbs | 6.50 |

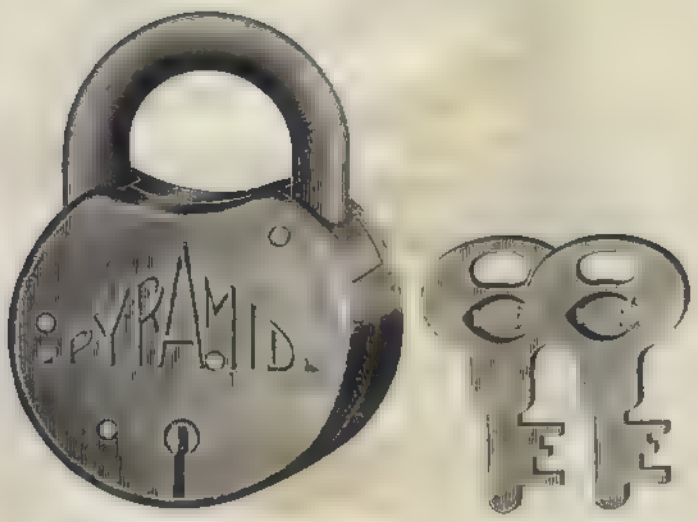
Packed, one-half dozen in box

MASTER KEYS

For master keys for the above locks see page 55.

# PADLOCKS

ILLUSTRATIONS FULL SIZE




Doz

No. 2901¼—2-inch steel black japanned case; self-locking heavy cast bright spring shackle; four wards; two flat nickel plated steel keys, 12 changes, weight per dozen 3½ lbs $ 2 50

Packed, one dozen in box.

Doz.

No. 02829—2⅛-inch solid brass polished case; formed brass key cylinder; self-locking steel nickeled rod, automatic action spring shackle with positive stop of shackle on case, two heavy rolled nickeled steel keys; weight per dozen 4¼ lbs..$ 4.50

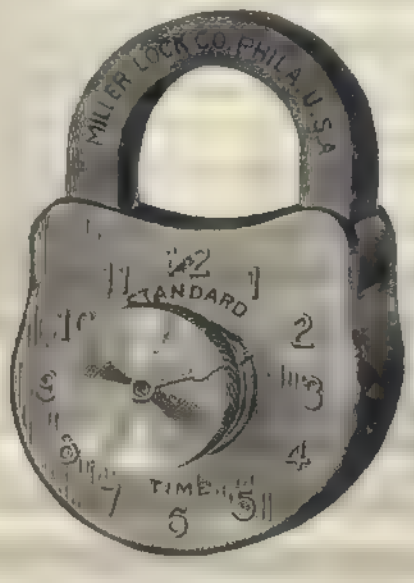
Packed, one-half dozen in box

Doz

No. 9902C—1⅝-inch brass case, heavy slotted key cylinder; self-locking brass rod automatic action spring shackle, with positive stop of shackle on case; galvanized anti-rust steel springs; 6-inch cut brass chain; two corrugated steel keys, with one master key with each dozen; 12 changes; weight per dozen 3 lbs ..... $ 5.50

No. 9902—Less chain; weight per dozen 2¾ lbs; otherwise same as No. 9902C.. ..... 4 50

Packed, one dozen in box



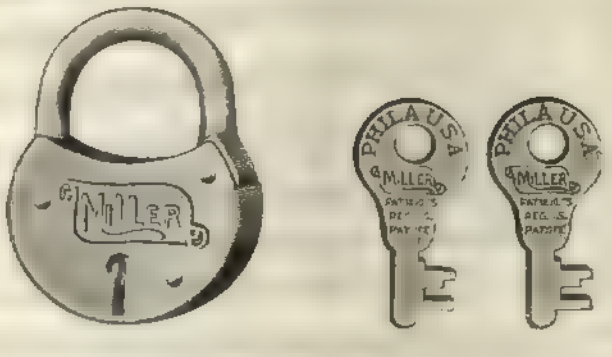

Doz.

No. 34—2-inch steel enameled black case; malleable iron nickel plated spring shackle; nickel plated brass dial and knob; interior works brass; has many combinations; can be opened as quickly as any keyed padlock and is non-pickable; weight per dozen 5½ lbs.....$16 80

Packed, one in box.

# PADLOCKS

ILLUSTRATIONS FULL SIZE

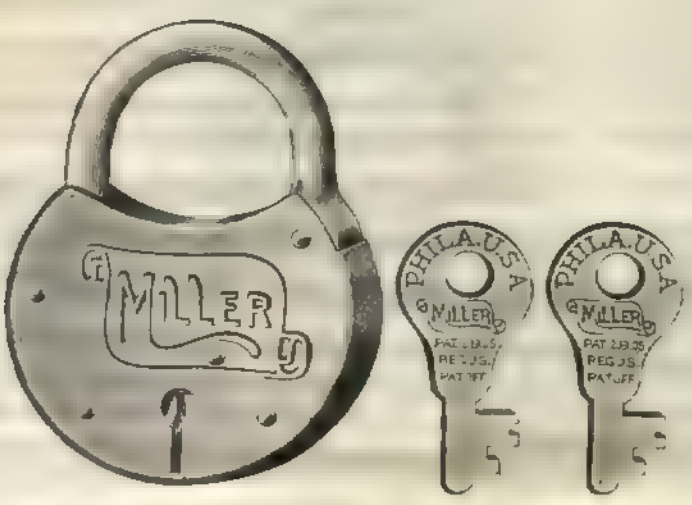



| | Doz |
|---|---|
| No. 16—1 1/16 inch steel black enameled case; self locking, malleable bright nickeled spring shackle, two flat steel keys, six changes; weight per dozen 1 lb | $ 1 80 |

**Packed, one dozen in box.**

| | Doz |
|---|---|
| No. 190—1¾ inch brass case and inside parts, self locking, malleable iron black enameled spring shackle, two flat steel keys, 12 changes, weight per dozen 3½ lbs | $ 4 00 |

**Packed, one dozen in box.**




**Nos. 21 and 210**

| | Doz. |
|---|---|
| No. 21—2 inch steel black enameled case; self-locking malleable bright nickeled spring shackle, two flat steel keys; 12 changes; weight per dozen 3 lbs | $ 3.20 |
| No. 210—2-inch brass case and inside parts; self-locking malleable iron black enameled spring shackle; two flat steel keys, 12 changes; weight per dozen 2 lbs | 4 60 |

**Packed, one-half dozen in box.**

**No. 76**

| | Doz. |
|---|---|
| No. 76—2 inch steel black enameled case; all interior parts brass, automatic self locking shackle; four levers, two heavy, flat nickeled steel keys, 12 changes, weight per dozen 3 lbs | $ 5 00 |
| No. 76B—Steel brass plated case, otherwise same as above | 5 00 |
| No. 77—Brass case and shackle, buffed bright finish; otherwise same as above | 7 50 |

**Packed, one-half dozen in box.**

# PADLOCKS

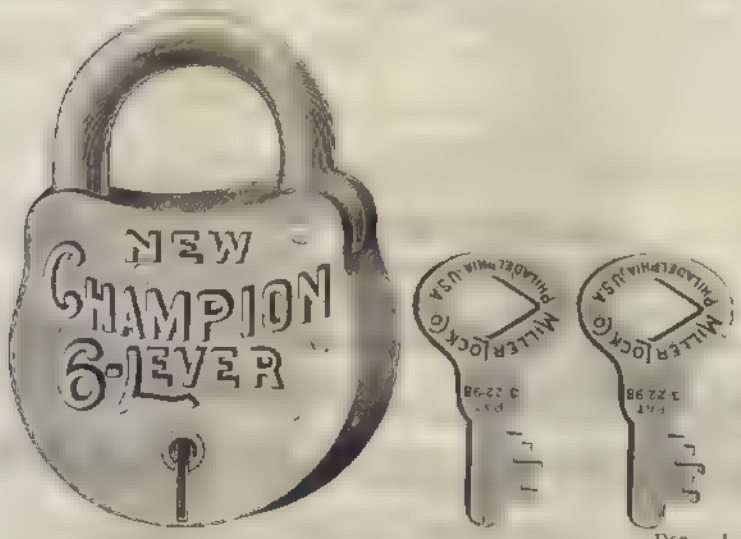
ILLUSTRATIONS FULL SIZE

No 14017 3 inch seamless steel black japanned case; self locking malleable iron nickeled shackle, malleable iron levers and interlocking bolt, two drilled nickeled steel keys, all different in dozen weight per dozen 13½ lbs. Doz. $ 3 00

Packed, one-half dozen in box.

No 04140 2½ inch cast bronze unfinished case; self locking spring shackle and drop, secure lever and ward, with 9-inch heavy galvanized iron chain, one bronze key, all alike in a dozen, weight per dozen 11¾ lbs..... Doz $17 50

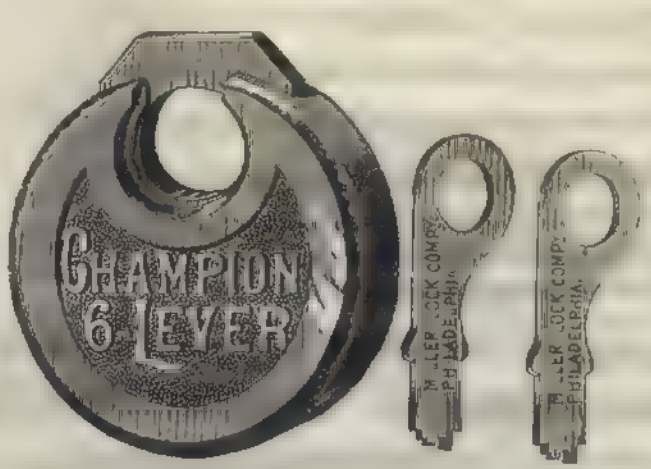
Packed, one half dozen in box




No. 5441 2-inch steel black enameled case; all interior parts brass, malleable spring shackle; six very secure levers closely fitted springs of gun metal, two flat nickeled steel keys, 144 changes, weight per dozen 4 lbs . . . . . Doz $ 6.50

No. 5440 Brass case and shackle; buffed bright finish, otherwise same as above .. . . . .. . . . 9 00

Packed, one-half dozen in box.




No. 1—2¼-inch gun metal case; all interior parts brass; gun metal spring; self-locking heavy spring shackle; six secure levers; two flat nickel plated steel keys; changes unlimited, weight per dozen 5¾ lbs . Doz $11 50

WITH CHAIN

No. 10—With 9 inch bright steel chain, otherwise same as above, weight per dozen 7 lbs . Doz $13 50

Packed, one-half dozen in box.

## PADLOCKS

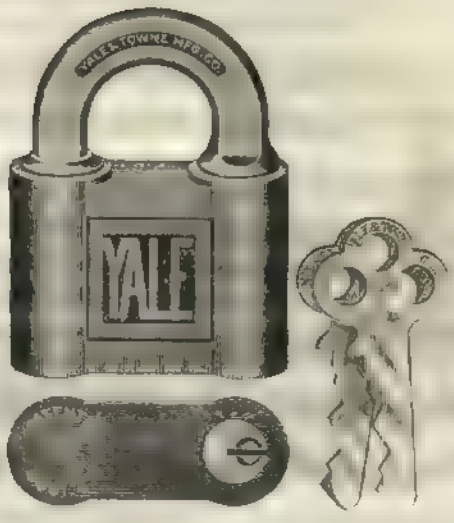
ILLUSTRATIONS FULL SIZE

No. 225—Titan; 2 inch cast iron bower-barff case, with wrought steel brass plated panels, self-locking steel brass plated shackle, two flat nickel plated steel keys, warded; six changes; weight per dozen 6¼ lbs..... Doz. $ 5.70

Packed, one-half dozen in box.

No. 655C—Vulcan, 2-inch steel old copper finish case; self-locking steel nickel plated spring shackle; five lever tumblers; two flat nickel plated steel keys, 12 changes; weight per dozen 5 lbs..... Doz. $ 7.50

Packed, one-half dozen in box




No. 803F—Ironsides; 1½-inch iron bower-barff case; self-locking cast bronze buffed spring shackle; four pin tumblers, two flat nickel plated steel keys, 144 changes; weight per dozen 4 lbs. .. .... Doz. $12 50

Packed, one-half dozen in box.

No. 805F—Ironsides; 2 inch iron bower-barff case; self-locking cast bronze buffed spring shackle; four tumblers; two flat nickel plated steel keys 144 changes; weight per dozen 7¾ lbs ... Doz $12 50

Packed, one-half dozen in box.

# PADLOCKS

ILLUSTRATIONS FULL SIZE

No. 743S

**Defender**—Steel bower-barff case; self-locking steel nickel plated spring shackle; two corrugated nickel plated steel keys.

| | | |
|---|---|---|
| Nos. | 743S | 745S |
| Size, inches | 1½ | 2 |
| Weight, per dozen, lbs. | 3 | 5¼ |
| Dozen | $14.50 | 15 50 |

No. 743S, three pin tumblers, 36 changes; No. 745S, four pin tumblers, 144 changes

Packed, one-half dozen in box.

No. 8434

**Monitor**—Seamless steel bower-barff case; self-locking steel bower-barff spring shackle; two corrugated nickel plated steel keys.

| | | |
|---|---|---|
| Nos. | 8434 | 8454 |
| Size, inches | 1½ | 2 |
| Weight per dozen, lbs. | 3½ | 6 |
| Dozen | $12.00 | 15.00 |

No. 8434, three lever tumblers, 48 changes; No. 8454, four lever tumblers, 144 changes.

Packed, one-half dozen in box

Doz.

**No. 813**—1-inch cast bronze fine wheel finish case; self-locking cast bronze fine wheel finish spring shackle; three lever tumblers; two fluted nickel bronze coined keys with gold plated bows; 48 changes; weight per dozen 1½ lbs. ..... $14.40

Packed, one-half dozen in box.

Doz.

**No. 813¾**—1-inch cast bronze fine wheel finish case; self-locking cast bronze fine wheel finish spring shackle; three lever tumblers; with 30-inch nickel plated brass safety chain and ring; two fluted nickel bronze coined keys with gold plated bows; 48 changes; weight per dozen 2½ lbs... $18.50

Packed, one in box.

# PADLOCKS

ILLUSTRATIONS FULL SIZE

Doz.

No. 833—1½ inch cast bronze fine wheel finish case, self locking bronze fine wheel finish spring shackle, three lever tumblers, two fluted nickel bronze coined keys, with gold plated bows, 48 changes; weight per dozen 4 lbs. ..... ....$18.00

Packed, one-half dozen in box.

Doz.

No. 843—1¾-inch cast bronze fine wheel finish case; self-locking bronze fine wheel finish spring shackle; four lever tumblers; two fluted nickel bronze coined keys, with gold plated bows, 72 changes, weight per dozen 5¼ lbs. ... . . $20 00

Packed, one-half dozen in box

Doz.

No. 853—2-inch cast bronze fine wheel finish case; self-locking bronze fine wheel finish, spring shackle; four lever tumblers; two fluted nickel bronze coined keys with gold plated bows; 144 changes; weight per dozen 8 lbs. .. ...$22 00

Packed, one-half dozen in box.

Doz.

No. 853½—2-inch cast bronze fine wheel finish case; self locking bronze fine wheel finish spring shackle; four lever tumblers; with 9 inch welded tinned iron, curb chain, two fluted nickel bronze coined keys with gold plated bows; 144 changes, weight per dozen 9¼ lbs. . . $25.00

Packed, one-quarter dozen in box

## PADLOCK ASSORTMENTS

ILLUSTRATIONS ONE-HALF SIZE

Mounted on fancy cards, with easel backs; size of card 16¾x11 inches

| | | Each |
|---|---|---|
| No 24272 | Assortment contains one dozen padlocks, weight per card 2⅓ lbs | $ 1 70 |

**Assortment Comprises the Following Padlocks:**

⅓ dozen No. 4134K—1¼-inch, coppered case, self locking spring shackle; two solid keys.
⅓ dozen No. 4171½—1½-inch; polished steel case; self-locking spring shackle; two flat steel keys.
⅓ dozen No. 4091¼—1½-inch; brass plated case; self-locking spring shackle; two flat steel keys.

The above padlocks are carried in stock in assortment only.

Mounted one dozen on card; packed one card in box

## PADLOCK ASSORTMENTS

ILLUSTRATIONS ONE HALF SIZE

Mounted on fancy cards, with easel backs; size of card 16¾x11 inches

No. 24157—Assortment contains one dozen padlocks; weight per card 3 lbs. ..... Each $ 2 00

**Assortment Comprises the Following Padlocks:**

½ dozen No 4202—2 inch iron ivory black case, self locking malleable iron spring shackle; two flat steel keys.
½ dozen No. 4202½—2 inch iron, brass plated case; self-locking malleable iron spring shackle; two flat steel keys
½ dozen No. 4202K 2-inch; iron coppered case, self-locking malleable iron spring shackle; two flat steel keys

The above padlocks are carried in stock in assortment only

Mounted one dozen on card; packed one card in box.

## PADLOCK ASSORTMENTS

ILLUSTRATIONS ONE-HALF SIZE

Mounted on fancy cards, with easel backs; size of card 16¾x11 inches.

Each

No. 24103—Assortment contains one dozen padlocks; weight per card 4½ lbs ..... $ 3.30

**Assortment Comprises the Following Padlocks:**

⅛ dozen No. 4118—2¼ inch, iron ivory black case, self-locking cast, brass plated spring shackle; two flat steel keys.

⅛ dozen No. 4117¼—2-inch; iron all brass plated case; self-locking cast spring shackle; two flat steel keys.

⅛ dozen No. 4096¼—2 inch, iron all brass plated case; self-locking cast spring shackle; two flat steel keys.

⅛ dozen No. 4044—1¾ inch; iron ivory black case; self-locking, nickel plated spring shackle; two flat steel keys.

The above padlocks are carried in stock in assortment only.

Mounted one dozen on card; packed one card in box.

## PADLOCK ASSORTMENTS

ILLUSTRATIONS ONE HALF SIZE

Mounted on fancy cards, with easel backs; size of card 16¾x11 inches

**No. 174F—Assortment contains one dozen padlocks; weight per card 6¼ lbs.** ... Each ..$ 4.20

Assortment Comprises the Following Padlocks:

⅛ dozen No. 2404—2-inch; bright steel case; self-locking malleable iron spring shackle; two double-bitted malleable flat bow keys.

⅛ dozen No 4123—2-inch; ivory black case; self-locking bright malleable iron spring shackle; two double bitted brass plated flat bow keys.

⅛ dozen No. 4158¾—2-inch; iron brass plated case; self-locking malleable iron spring shackle; two double bitted flat steel keys.

⅛ dozen No 4109G—2½-inch; iron, galvanized case, self-locking cast spring shackle; two flat steel keys

⅛ dozen No. 4129¾—2½-inch; iron, all brass plated case, self locking malleable iron spring shackle, two flat steel keys.

Nos 2404, 4123 and 4158¾ are also carried in stock separately

Nos. 4109G and 4129¾ are carried in assortment only.

Mounted, one dozen on card; packed one card in box

## PADLOCK ASSORTMENTS

No. W45

No. W23

Mounted on fancy cards, with wire easel backs; size of cards 16x12¾ inches

**No. W45**—Assortment contains one dozen padlocks; weight per card 3½ lbs — Each $ 2 00

Assortment comprises the following padlocks

⅓ dozen No. 324—2-inch; bright steel case, self-locking steel shackle; two flat steel keys
⅓ dozen No. 325—2-inch; steel brass plated case; self-locking brass plated steel shackle; two flat steel keys
⅓ dozen No. 326—2-inch; ivory black steel case; self-locking nickeled steel shackle; two flat steel keys

Packed one assortment in box

Mounted on fancy cards, with wire easel backs; size of cards 16x12¾ inches

**No. W23**—Assortment contains one dozen padlocks, weight per card 4 lbs — Each ..$ 4.50

Assortment comprises the following padlocks

⅓ dozen No. 955—1½-inch, XLNT solid cast brass, self-locking dropped nickel shackle steel interior parts; slotted key cylinder; flat steel keys.

⅓ dozen No. 956—1⅝-inch; otherwise same as No. 955

⅓ dozen No. 957—1⅞-inch; otherwise same as No. 955

½ dozen No. 2909—1⅝ inch, XYZ Box, cast brass case, self locking brass plated steel shackle with patent loop double spring lever, two fluted, nickel plated steel keys

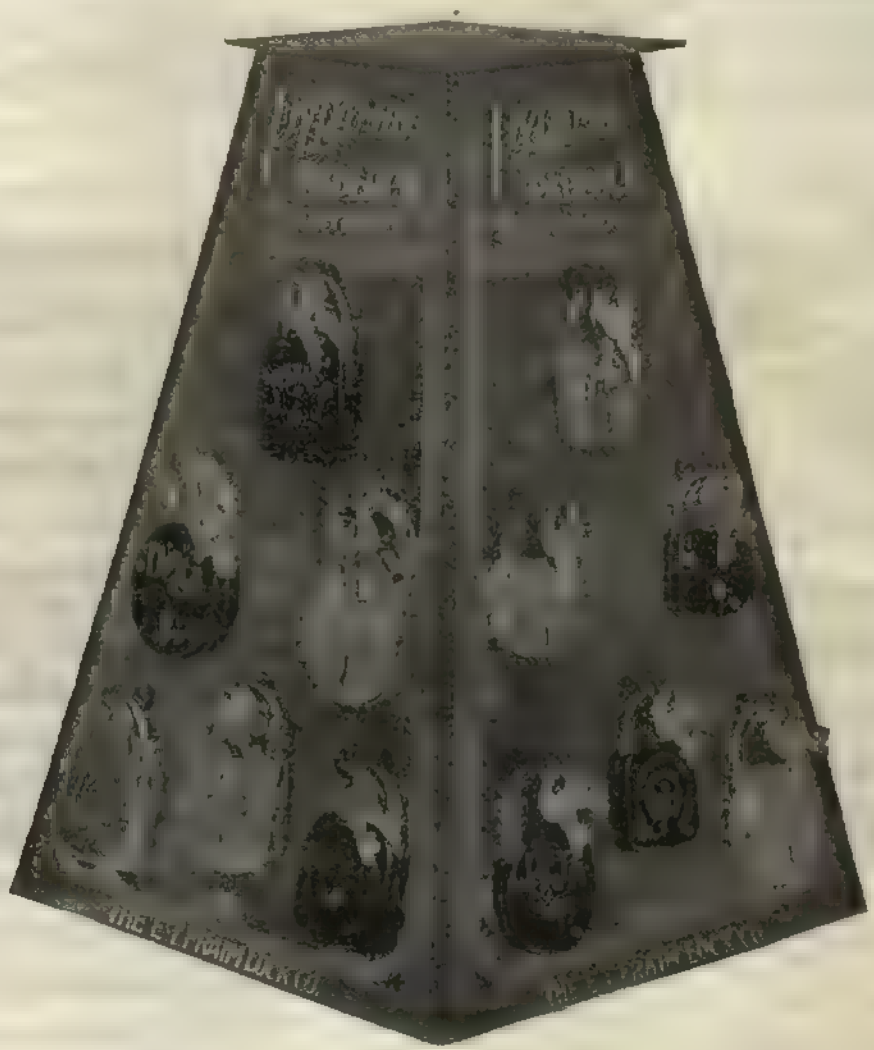
⅙ dozen No. 2949—1⅝ inch Motor solid cast bronze phosphor bronze spring self locking cast bronze shackle two nickel plated steel keys

⅙ dozen No. 24017—2 inch; Oak, solid brass case; self locking dropped steel shackle; interlocking bolt and levers; two drilled keys

Packed one assortment in box

## PADLOCK ASSORTMENTS

ILLUSTRATIONS ONE-HALF SIZE



Mounted on collapsible heavy cardboard pyramid stand, size of stand 13 inches high, 9 inches at base, 4 inches at top; packs flat in box, and stands perfectly rigid when set up.

**No. 1910**—Assortment contains two dozen padlocks; weight per stand 8 lbs. . . . . Net ....$ 7.00

**Assortment Comprises the Following Padlocks:**

1/12 dozen No. 851—2-inch; steel brass plated case; self-locking malleable iron polished spring shackle, two flat steel ribbed keys.

1/12 dozen No. 894—2-inch; steel black japanned case, self-locking malleable iron spring shackle, two forged steel plated barrel keys.

1/12 dozen No. 406—1⅝-inch; solid bronze, highly polished case; self-locking spring shackle; two flat steel keys.

1/12 dozen No. 44—1¾-inch; solid brass, engraved back and front, highly polished case; self-locking spring shackle; two flat steel keys.

1/12 dozen No. 123—2-inch, brass plated case self-locking malleable iron spring shackle; two malleable iron double bitted keys.

1/12 dozen No. 124—2-inch; steel black japanned case; self-locking bright spring shackle, two malleable iron double bitted keys.

1/12 dozen No. 143—2-inch; steel brass plated case, self-locking malleable iron spring shackle; two flat steel double bitted keys.

1/12 dozen No. 144—2-inch; steel black japanned case; self-locking bright spring shackle; two flat steel double bitted keys.

1/12 dozen No. 85G—2-inch; steel japanned case; self-locking malleable iron polished spring shackle, two flat steel ribbed keys.

1/12 dozen No. 895—2-inch steel, brass plated case; self-locking malleable iron spring shackle, two forged steel plated barrel keys.

⅙ dozen No. 66—1¼-inch; solid bronze case; full nickel plated, self-locking spring shackle; two flat steel nickel plated keys.

⅙ dozen No. 197—2-inch; cast bronze case; self-locking spring shackle; two flat steel keys.

⅙ dozen No. 216—1⅝-inch; brass, fine wheel finish case; self-locking spring shackle; two brass drilled barrel keys.

⅙ dozen No. 89—1⅞-inch, cast brass case; self-locking spring shackle, two flat steel plated keys.

⅙ dozen No. 475—1⅝-inch; solid brass case; polished surface; dark oxidized background, self-locking automatic nickel plated steel rod shackle; two corrugated steel nickel plated keys.

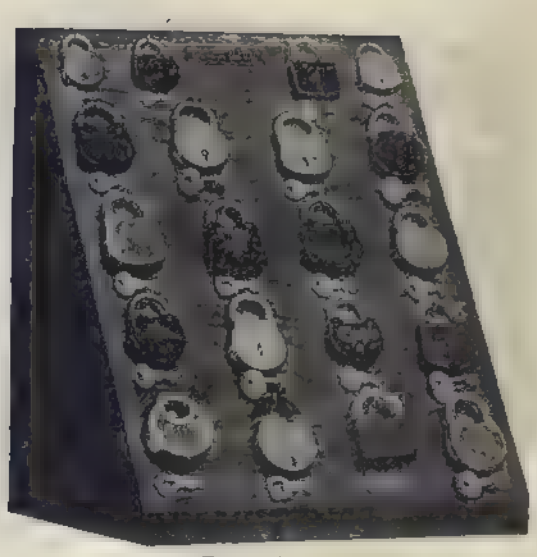
⅓ dozen No. 495—2½-inch; wrought steel full brass plated case; self-locking spring shackle, two flat steel keys.

⅙ dozen No. 79—1⅝-inch; solid cast brass case, self-locking spring shackle two flat steel plated keys.

The above padlocks are carried in stock in assortment only.

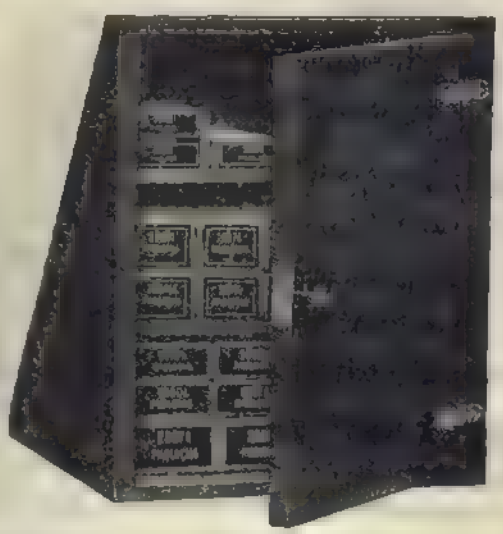
Mounted, two dozen on pyramid; packed one pyramid in box.

# PADLOCK ASSORTMENTS



Front view

Cabinet made of selected hard wood, highly finished in weathered oak, and fitted with brass hinges and latch; shelves arranged inside of cabinet to accommodate all of the locks furnished with the assortment with room for more if desired; size of cabinet, 17 inches high, 14 inches wide, 12 inches deep.



Rear view

No. 400—Assortment contains 7⅝ dozen padlocks; weight per assortment 38 lbs. .... Each $25 00

**Assortment Comprises the Following Padlocks:**

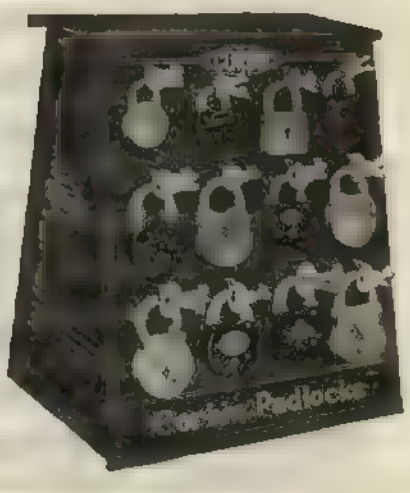
| | Doz |
|---|---|
| 7/12 dozen No. 02904—1½ inches; brass, plain finish case; self-locking brass spring shackle; two flat steel keys; weight per dozen 1¼ lbs. | $ 2.00 |
| 7/12 dozen No. 2988¼—1⅝ inches; steel japanned case; self-locking brass plated spring shackle; two flat steel keys, weight per dozen 1¼ lbs. | 1.70 |
| 7/12 dozen No. 2997¼—1⅝ inches; steel japanned case; self-locking brass plated spring shackle; two round shank keys; weight per dozen 2¼ lbs. | 1 80 |
| 7/12 dozen No. 2986¾—1⅝ inches; steel brass plated case; self-locking brass plated spring shackle; two flat steel keys; weight per dozen 1⅝ lbs. | 1 70 |
| 7/12 dozen No. 2987¾—2¼ inches; steel brass plated case; self-locking brass plated spring shackle; two flat steel keys, weight per dozen 3½ lbs. | 2 90 |
| 7/12 dozen No. 2987¼—2¼ inches; steel japanned case; self-locking brass plated spring shackle; two flat steel keys weight per dozen 3½ lbs. | 2 90 |
| ½ dozen No. 2918¼—2 inches; steel black japanned case; self-locking bright spring shackle; two flat steel keys; weight per dozen 2 lbs. | 1 80 |
| ½ dozen No. 2918¾—2 inches steel, brass plated case; self-locking brass plated spring shackle; two flat steel keys; weight per dozen 2 lbs. | 1 80 |
| ⅛ dozen No. 2960¼—2 inches; steel japanned case, self-locking brass plated spring shackle; two round shank keys, weight per dozen 3¼ lbs. | [illegible] |
| ⅛ dozen No. 2960¾—2 inches; steel brass plated case; self-locking brass plated spring shackle; two round shank keys; weight per dozen 3¼ lbs. | 2 00 |
| ⅛ dozen No. 994¼—2 inches; steel black japanned case; self-locking bright spring shackle; two flat nickel plated steel keys; weight per dozen 3¾ lbs. | $ 4.20 |
| ⅛ dozen No. 2901¾—2 inches; steel brass plated case; self-locking brass plated spring shackle; two flat nickel plated steel keys; weight per dozen 3¼ lbs. | 2.50 |
| ⅛ dozen No. 925⅛—2 inches; steel brass plated case; self-locking brass plated spring shackle; two wrought steel double bitted keys; weight per dozen 4 lbs. | 4.00 |
| ⅛ dozen No. 2867⅛A—2¼ inches; steel gun metal finish nickel head case; gun metal spring shackle; two round shank keys; weight per dozen 3½ lbs. | 3 50 |
| ⅛ dozen No. 2956¼—2 inches; steel japanned case; self-locking brass plated spring shackle; two flat steel keys; weight per dozen 3¼ lbs. | 3 30 |
| ⅛ dozen No. 2901¼—2 inches; steel black japanned case; self-locking bright spring shackle; two flat nickel plated steel keys; weight per dozen 3¼ lbs | 2 50 |
| ¼ dozen No. 0995A—2¼ inches; cast brass polished case; self-locking heavy brass spring shackle; two flat steel keys; weight per dozen 5¼ lbs. | 9 50 |
| ¼ dozen No. 02866¼—2¼ inches; cast bronze case; self-locking brass spring shackle; two round shank keys; weight per dozen 5¼ lbs. | [illegible] |
| ⅛ dozen No. 2942⅛—2 inches; steel gun metal case; self-locking bronze plated spring shackle; two corrugated nickel plated steel keys; weight per dozen 5⅛ lbs. | [illegible] |
| ⅛ dozen No. 02992¾—2 inches; brass case; self-locking japanned spring shackle; two flat steel keys; weight per dozen 4 lbs. | 9 00 |

Packed, one-half dozen in box

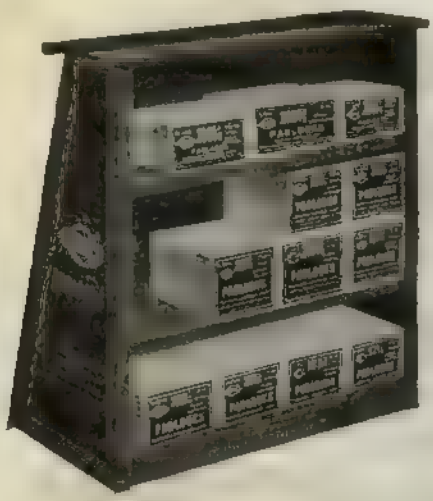
The above padlocks are carried in stock separate or in the assortment

Packed one assortment in carton

## PADLOCK ASSORTMENTS



Front view



Rear view

Cabinet made of metal, dark green japanned; two wood shelves stained dark green, arranged in back to accommodate all of the locks furnished with the assortment; cabinet 12¾ inches high, 12¼ inches wide and 7½ inches deep.

**No. 800**—Assortment, contains 5 dozen padlocks weight per assortment 24½ lbs — Asst. $12.50

**Assortment Comprises the Following Padlocks:**

7/12 dozen No. 2804¾—1½-inch; brass plated steel, brass plated, malleable iron spring shackle two flat steel keys, five changes in a dozen.

7/12 dozen No. 2988¼—1⅝-inch; black japanned steel; brass plated, malleable iron spring shackle; two flat steel keys, five changes in a dozen

7/12 dozen No. 2986¾ –1⅞-inch; brass plated steel; brass plated, malleable iron spring shackle; two flat steel keys, five changes in a dozen.

7/12 dozen No. 2997¾—1¾-inch brass plated steel; brass plated, malleable iron spring shackle two flat bow steel keys, five changes in a dozen

1/3 dozen No. 2806¼—2-inch; black japanned steel; brass plated, malleable iron spring shackle; two flat steel keys, six changes in a dozen

1/3 dozen No. 2918½B—2-inch; antique brass finish steel; antique brass finished, malleable iron spring shackle; two flat steel keys, six changes in a dozen

1/3 dozen No. 2802¼—1¾-inch; black japanned steel; nickel plated malleable iron spring shackle; two flat steel keys, all different in a dozen

1/3 dozen No. 2901¾—2-inch; brass plated steel; brass plated, malleable iron spring shackle; two flat steel keys, all different in a dozen.

1/3 dozen No. 925½—2-inch; brass plated steel; brass plated, malleable iron spring shackle; two flat bow steel keys, all different in a dozen

1/3 dozen No. 2822¼—2-inch; black japanned steel; brass plated, malleable iron spring shackle; two flat steel keys, all different in a dozen

1/3 dozen No. 952½—2-inch; black japanned steel; brass plated, malleable iron spring shackle; two flat bow steel keys, all different in a dozen

1/3 dozen No. 2987¾—2¼-inch; brass plated steel; brass plated, malleable iron spring shackle; two flat steel keys, six changes in a dozen

Packed, one assortment in a wood box

# 20th Century Striking Bag Platforms

10551.

**10551** Consists of a frame and a bag, combining all the good points of the regulation three-foot ring platforms without its drawbacks. The frame construction is entirely new, having all the elements of strength, simplicity, compactness and lightness, and makes all former apparatus for suspending a striking bag, it needs no preparation, to make a firm connection, as it is not with special reference to attaching quickly to any ordinary doorway frame, though it can just as readily be attached to any studded wall. It will go right side of a doorway and occupies a space of only a one-foot triangle extending into the room two feet.

The clamping device attachment, which is a feature of this outfit, holds the frame securely to either upper corner of the door frame without defacing the finish, takes up no additional space, and can be adjusted in one minute. These features, and the fact that, in comparison with the ring platforms, it makes but little noise, makes it possible for many to indulge in this fascinating and beneficial exercise in their home or office who have found it impossible in the past, on account of the many drawbacks of the old styles.

The action and play are identical with the ring platform, with greater speed if desired, and permit of the same fancy variations and rolls. The bag is the same, and is suspended by a rawhide strap or cord, which works freely and permits of the easy and natural swing not possible by any controlled by elastic cords or springs.

Frame of enameled metal with forged steel brace rod, clamps and clamping bars, polished ash head, fine quality special tanned bag with pure gum bladder, clamps protected with leather so that no metal comes in contact with door frame, and as no screws or nails are used no marks are left when apparatus is removed. For a person of ordinary height the frame should be placed so that the lower clamp will be 5 feet 7 or 8 inches above the floor.

To obtain the best results the bag should drop only 1½ to 4 inches below the lower disc, according to speed desired, and be inflated only to that tension which can easily be secured by blowing up with the mouth.

Weight complete, packed in heavy cardboard box, 18 lbs. $17 00

| | | |
|---|---|---|
| 10551 | Complete with bag and clamping device, each | |
| 10552 | Duplicate bags for this machine | 5 00 |

10553.

**10553** This apparatus is heavier than No. 10551, being designed for gymnasium or professional use.

The frame is similar in design to No. 10551, except that it has an adjustable head, which will raise or lower the bag six inches, and two brace rods, though one will answer for ordinary purposes. It is attached with screws. Special re-inforced bag, very fast and strong, pure gum bladder.

Weight complete, packed in box, 20 lbs.

| | | |
|---|---|---|
| | Complete with bag, each | $18 00 |
| 10554 | Extra bags | 7 00 |

**If you have a base ball or foot ball team in your town which is in need of suits, balls, etc., go after them. Let us know about it and we will do all we can to help you get their orders. A little push in this business will win marvelous results.**

10555.

**10555** This outfit is the same as No. 10551, without the clamping device, and is secured to door frame or wall by screws. Variations in height of door frames are provided for by reversing brace rod and bracket iron. Special bag with pure gum bladder.

Weight complete, in box, 12 lbs.

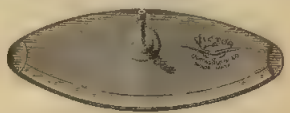
| | | |
|---|---|---|
| | Complete with bag. Each | $15 00 |
| 10556 | Extra bags. Each | 4 00 |

## Victor Bladders.

We use in our line of Victor Foot Balls only the best grade of pure gum bladders, and no composition rubber. Each bladder is carefully tested before we send it out, and we stamp them on an envelope apart from the case, so that purchasers may also test them. After having placed in the case a puncture with a pin or the stem would indicate carelessness in lacing and we cannot allow claims for replacement.

### Association Bladders.

| | | Each. |
|---|---|---|
| 10557 | Victor special, pure gum, gray, extra heavy | $2 50 |
| 10558 | Standard quality, pure gum, gray | 1 60 |
| 10559 | Standard quality, pure gum, gray | 1 40 |
| 10560 | Standard quality, pure gum, gray | 1 20 |



### Rugby Bladders.

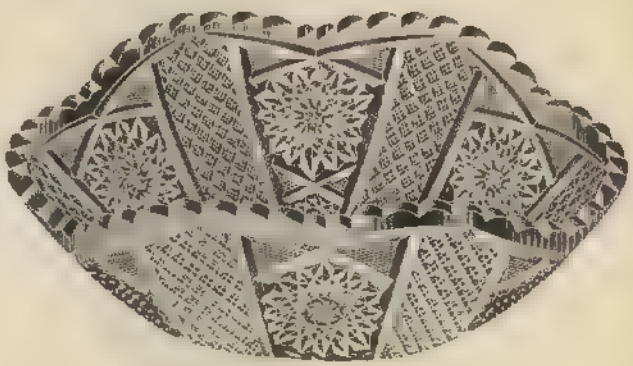
| | | Each |
|---|---|---|
| 10561 | Victor Special Intercollegiate, pure gum, gray, extra heavy | $2 50 |
| 10562 | Standard quality, pure gum, gray | 1 60 |
| 10563 | Standard quality, pure gum, gray | 1 40 |
| 10564 | Standard quality, pure gum, gray | 1 20 |

**We Know This Business Thoroughly. We Show You Only Such Goods as are Up-to-date and Salable.**

# FINE QUALITY AMERICAN CUT GLASSWARE
## FRUIT OR BERRY BOWLS

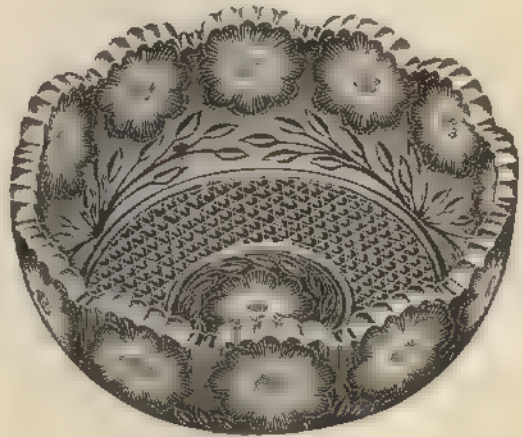
PRICES EACH

Berry Bowl
No. 6821 8-inch $8 00
No. 6822 9-inch 11 00

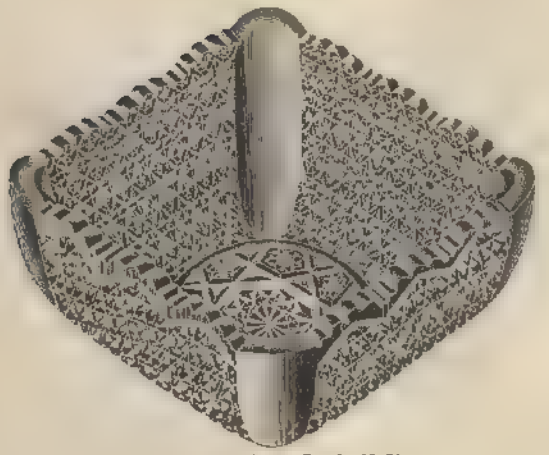


No. 6823 Oval Bowl $9 50
10 inches

Berry Bowl
No 6824 8-inch $9 00
No. 6825 9-inch 13 00



No. 6826 Berry Bowl $9.00
8 inches



No. 6827 Square Berry Bowl $8 50
8 inches square

No. 6828 Berry Bowl $8 50
9 inches

# FINE QUALITY AMERICAN CUT GLASSWARE—FRUIT OR BERRY BOWLS

PRICES EACH

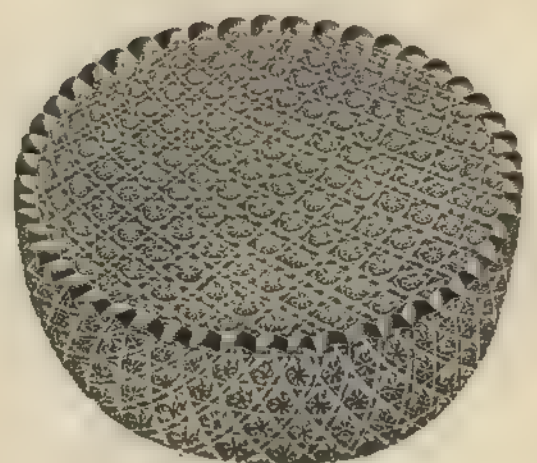
No. 6829 Berry Bowl $8.50
8 inches

No. 6830 Berry Bowl $7.00
8 inches

No. 6831 Berry Bowl $7.50
8 inches

No. 6832 Berry Bowl $6.50
8 inches

No. 6833 Berry Bowl $6.00
8 inches



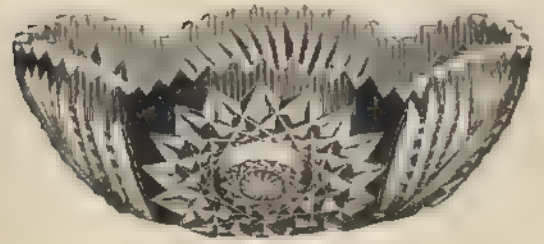
No. 6834 Berry Bowl $7.00
8 inches

# FINE QUALITY AMERICAN CUT GLASSWARE, FRUIT OR BERRY BOWLS NAPPIES AND SPOON TRAYS

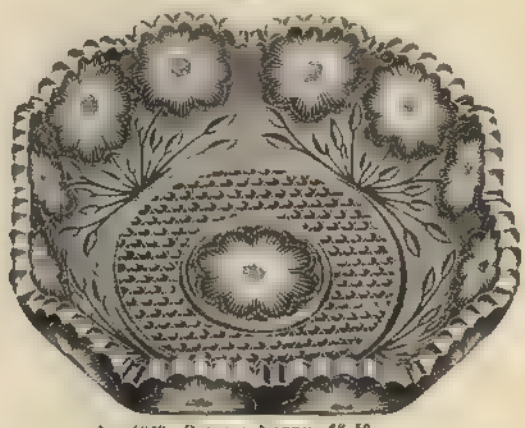
PRICES EACH

No. 6835 Berry Bowl $5 00
8 inches

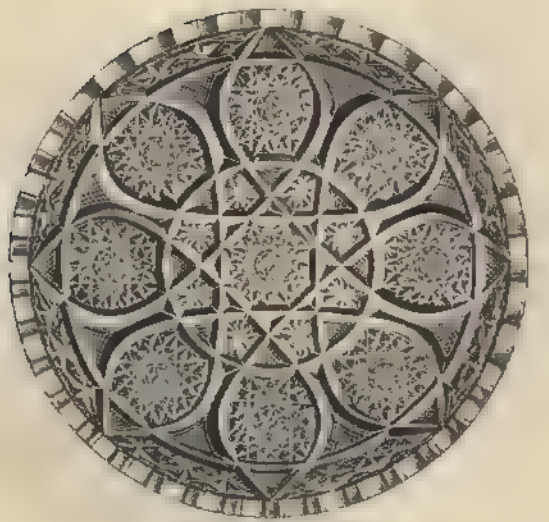
No. 6836 Berry Bowl $4 50
7 inches



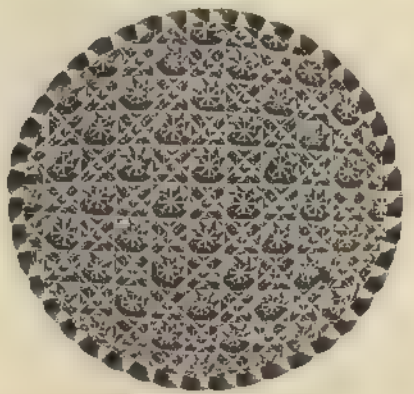
No 6837 Round Bowl $4 80
Deep Cut 8 inches



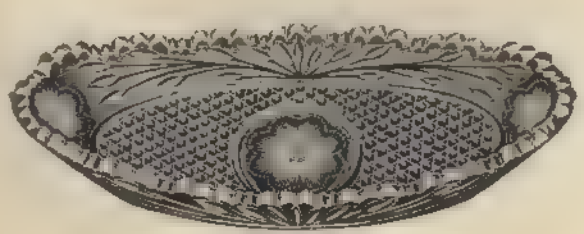
No. 6838 Octagon Nappy $8 50
8 inches



No 6839 Nappy $7 50
8 inches



No 6840 6 inch Nappy $2 50
No 6841 7 inch Nappy 4 50



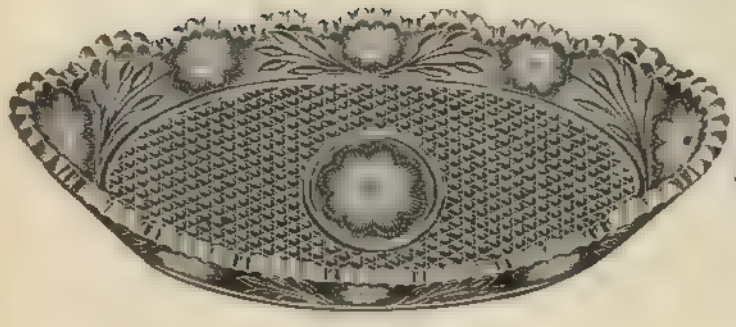
No. 6842 Spoon Tray $3 75

No. 6843 Spoon Tray $3 50

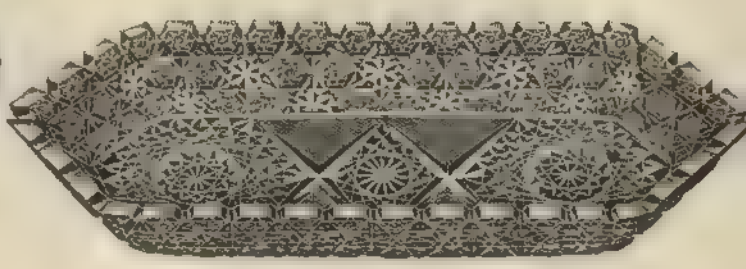
# FINE QUALITY AMERICAN CUT GLASSWARE

## CELERY TRAYS

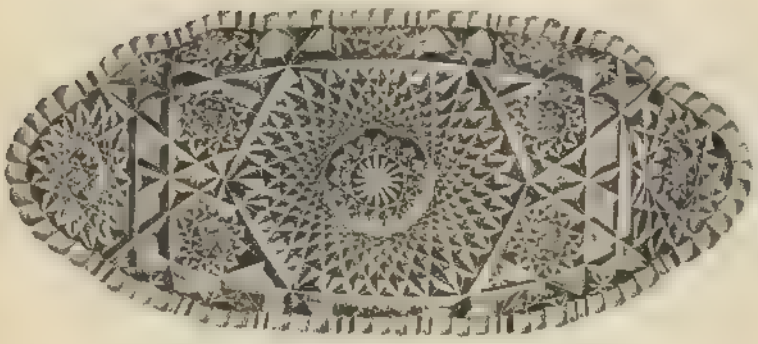
PRICES EACH



No. 6844 Celery $9 00
12½ inches long

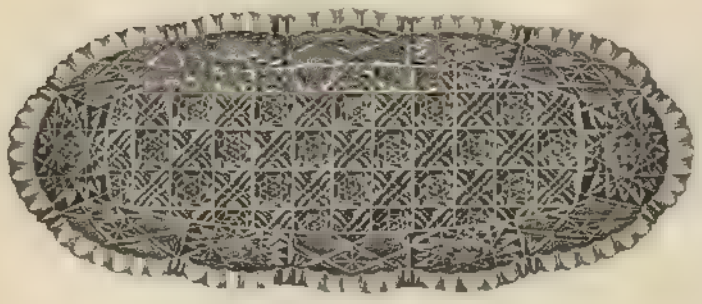


No. 6845 Celery $8 50
Length [illegible] inches [illegible]

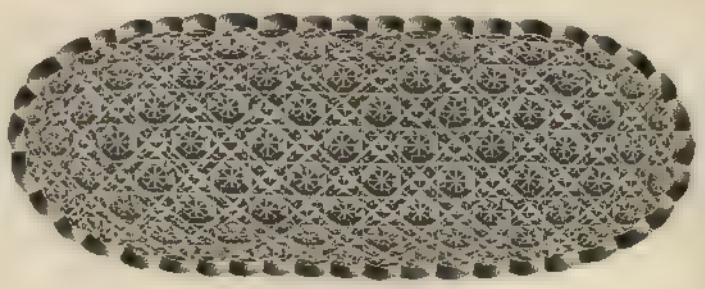


No. 6846 Bread Tray $7 50
Length, 13 inches Width, 5¾ inches

No. 6847 Celery Tray $7 50
Length, 11 inches Width, 5 inches



No. 6848 Celery $6 00
Length 11½ inches



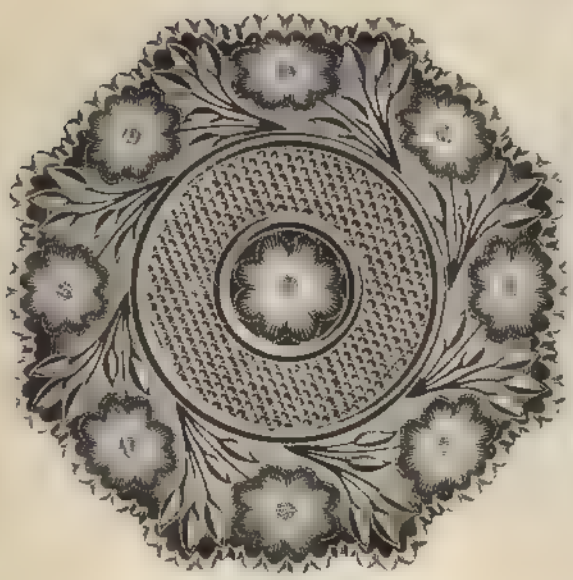
No. 6849 Celery Tray $5 50
Length 11½ inches

No. 6850 Celery Tray $4 75
Length, 11 inches

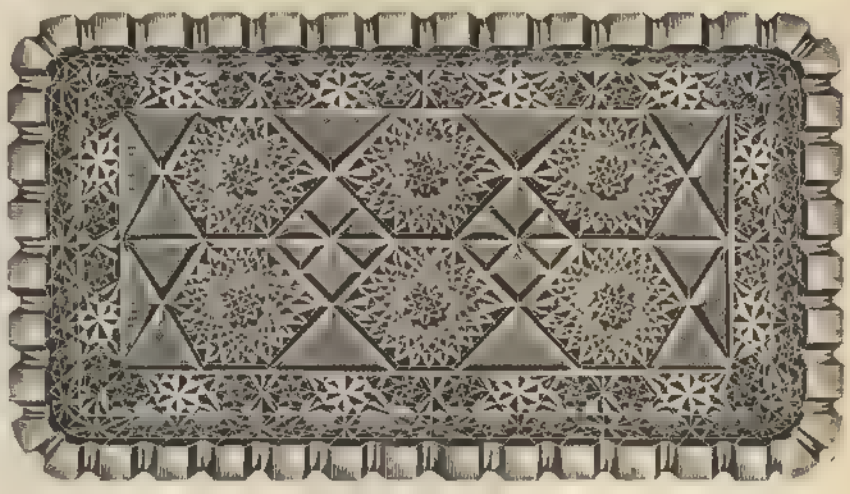
No. 6851 Celery Tray $4 00
Length, 11 inches Width, 5 inches

# FINE QUALITY AMERICAN CUT GLASSWARE
# SANDWICH PLATES, TRAYS AND CHEESE DISH

PRICES EACH

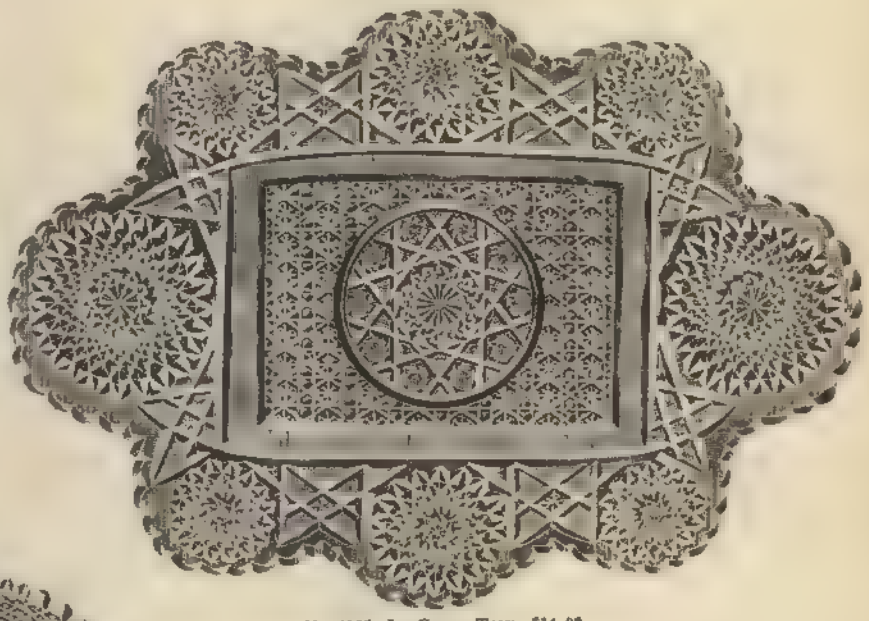


No. 6852 Sandwich Plate $8 50
Diameter, 10 inches



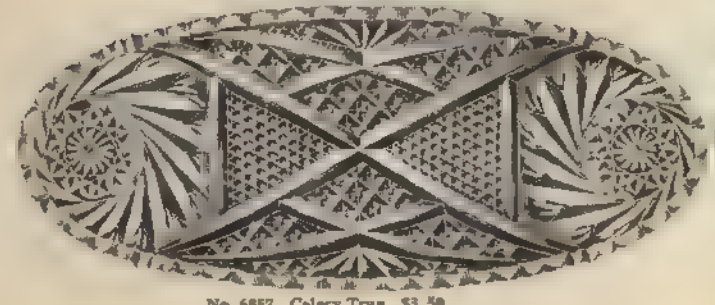
No. 6853 Tray $20 00
Length, 14 inches

No. 6854 Cheese Plate $4 00
Diameter, 7 inches



No. 6855 Ice Cream Tray $14.00
Length, 14 inches

No. 6856 Celery Tray $4 50
Length, 11 inches

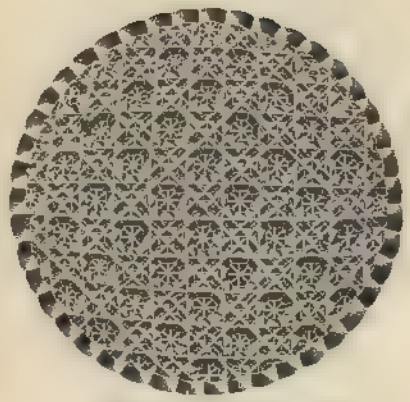


No. 6857 Celery Tray $3.50
Length, 11 inches

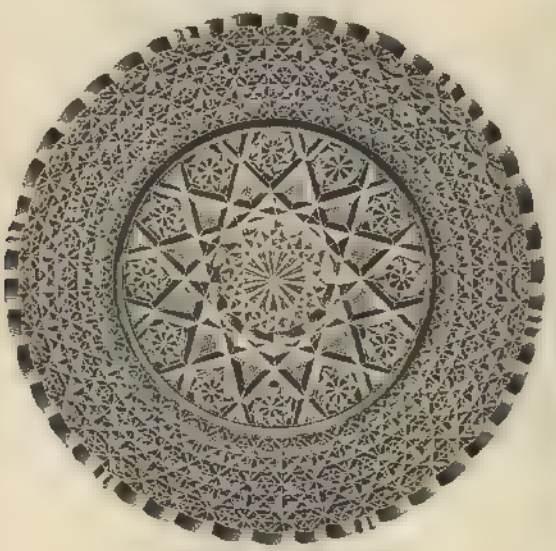
No. 6858 Deep Dish $11 00
Length, 12 inches

# FINE QUALITY AMERICAN CUT GLASSWARE NAPPIES

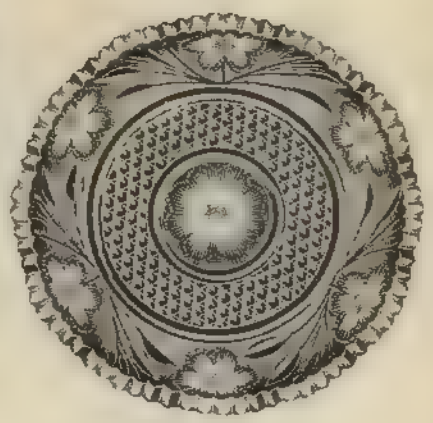
PRICES EACH



No. 6859 Nappy, Round $2 50
6 inches
No. 6860 Nappy, Round $4 50
7 inches



No. 6861 Nappy, Round $7 50
9 inches



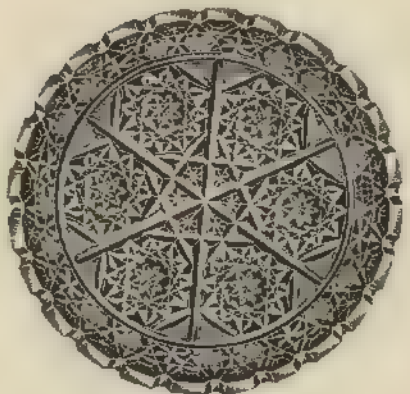
No. 6862 Nappy, Round $3 50
6 inches

No. 6863 Nappy $3 75
6 inches One handle

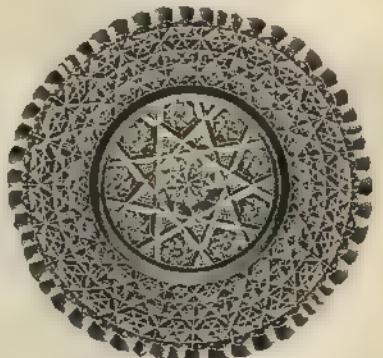
No. 6864 Nappy $3 00
6 inches Two handles

No. 6865 Handle Nappy $1 75
5 inches
No. 6866 Handle Nappy $2 00
6 inches

No. 6867 Nappy, Round $2 50
6 inches



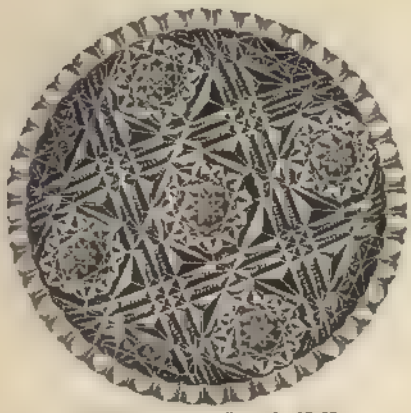
No. 6868 Nappy, Round $3 50
6 inches



No. 6869 Round Nappy $2 50
6 inches
No. 6870 Handle Nappy 2 50
6 inches

# FINE QUALITY AMERICAN CUT GLASSWARE NAPPIES, BON BONS, ETC.

PRICES EACH



No 6871 Nappy Round $2 50
6 inches

No 6872 Round Nappy $1 50
Diameter 5 inches
No 6873 Round Nappy $2 00
Diameter 6 inches

No. 6874 Round Nappy $1 50
5 inches
No. 6875 Round Nappy $2 00
6 inches

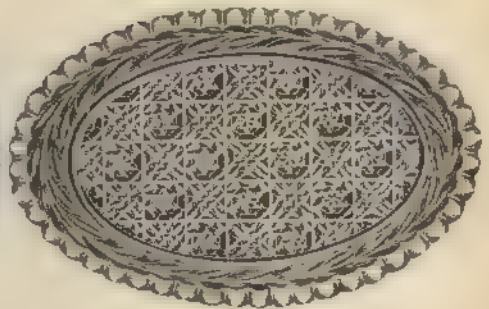
No 6876 Spooner $2 50
Length, 8 inches Width, 3¼ inches

No 6877 Pickle Dish $4 25
Length, 8 inches Width 5 inches

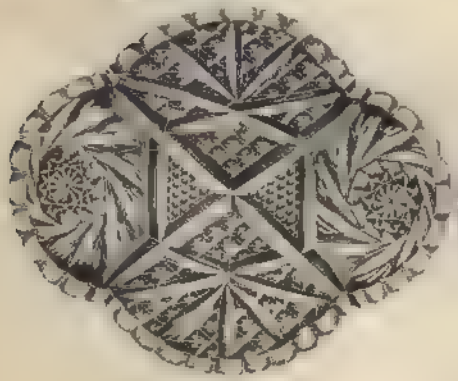
No 6878 Pickle Dish $2 75
Length 8 inches Width 4 inches

No. 6879 Lemon Dish $4 75
Length 9¾ inches Width 5 inches

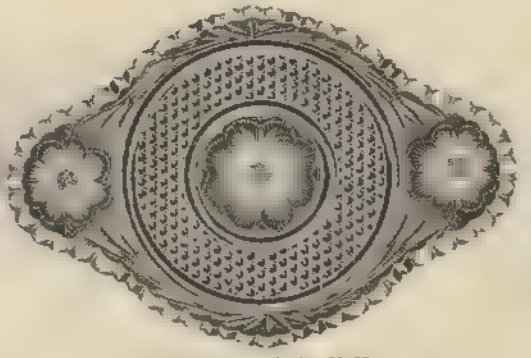
No. 6880 Olive Dish $2 25
Length 7 inches



No 6881 Bon Bon Dish $2 50
Length 7 inches



No. 6882 Olive Dish $2 00
Length 7 inches



No. 6883 Lemon Dish $3 50
Length 8 inches

No. 6884 Pin Tray $1 75
Length 5 inches

# FINE QUALITY AMERICAN CUT GLASSWARE, MAYONNAISE SETS, ETC.

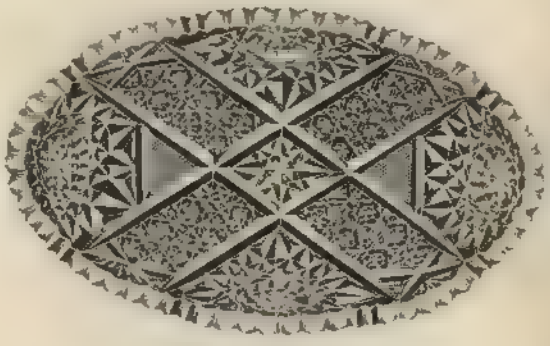
PRICES PER PAIR AND EACH

No. 6885 Mayonnaise Set $8 50
[illegible]

No. 6886 Mayonnaise Set $7 50
Bowl, 6 inches diameter Plate, diameter [illegible]

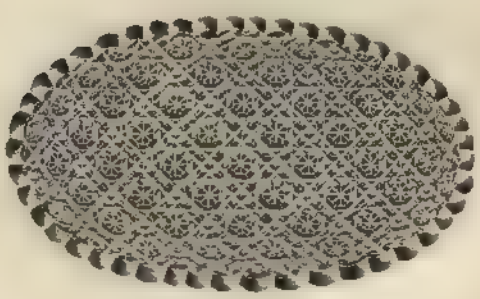
No. 6887 Mayonnaise Set $6 00
Bowl, diameter 5 inches Plate, diameter 6 inches

No. 6888 Mayonnaise Set $9 00
Bowl, 6 1/4 x 4 1/2 inches Plate, 7 x 5 1/4 inches



No. 6889 Spoon Tray $2 75
Width 5 1/2 inches Length 9 inches

No. 6890 Pin Tray $3 00
Length, 8 3/4 inches Width 3 3/8 inches



No. 6892 Spoon Tray $2 75
[illegible]

No. 6893 Olive Dish $2 00
Length 8 inches

No. 6891 Whipped Cream Bowl $3.75
6 inches

No. 6895 Spoon Tray $2 50
Length, 8 1/2 inches

# FINE QUALITY AMERICAN CUT GLASSWARE
## SUGARS AND CREAMS

PRICES PER PAIR

No. 6896 Sugar and Cream $9 00

Cream

No. 6898 Sugar and Cream $7 50

No. 6897 Cream and Sugar $8 00

No. 6899 Sugar and Cream $6 50

No. 6901 Sugar

No. 6900 Sugar and Cream $7 50

No. 6901 Sugar and Cream $8 50

# FINE QUALITY AMERICAN CUT GLASSWARE

## SUGARS AND CREAMS, ETC.

PRICES PER SET AND EACH

No. 6902 3 Pieces, Sugar, Cream and Tray Set $13 00
Length of tray, 10 inches Height of Sugar, 3 inches Height of Cream, 3 inches

No. 6903 Sugar

No. 6903 Sugar and Cream $6 50
Sugar, 3 inches high 6½ inches outside of handle
Cream 3 inches high 5½ inches spout to handle

No. 6904 Sugar and Cream $4 50
Sugar, 2½ inches high 6 inches outside of handles
Cream 2½ inches high 5½ inches spout to handle

No. 6906 Covered Butter Dish $8 00

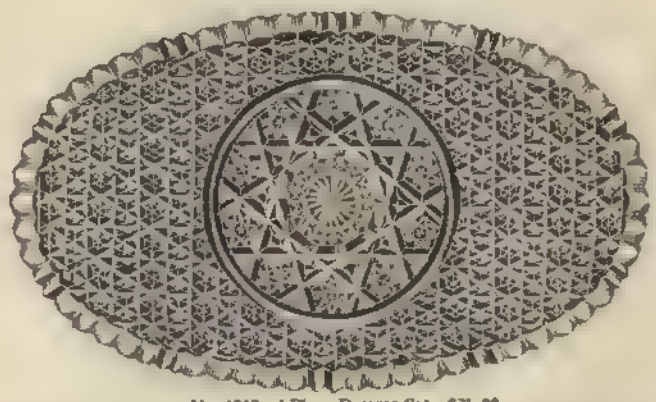
No. 6905 Sugar and Cream $3 75
Sugar, 2½ inches high 6 inches outside of handles
Cream 2½ inches high 5 inches spout to handle

No. 6907 Syrup Jar $6 00
5⅜ inches high

# FINE QUALITY AMERICAN CUT GLASSWARE, DRESSER SETS, ETC.

PRICES PER SET AND EACH

No. 6909



No. 6912 4 Piece Dresser Set $21.00

No. 6908 10-inch Tray ..... $6 00
No. 6909 6-ounce Cologne ..... 5 00

No. 6910 4-inch Puff Box ..... $5 00
No. 6911 4-inch Hair Receiver ..... 5 00

No. 6911

No. 6910

No. 6913 Jewel Case $3.50
4½ inches

No. 6914 Puff Box, 4-inch $4 50
No. 6915 Puff Box, 5-inch 6 50

No. 6916 Jewel Case $5 50
6¾ inches long

No. 6917 Cologne $4 00
Capacity 6 ounces

No. 6922 Cake or Fruit Basket $7 50
Height, 8 inches

No. 6918 Puff Box $6.50
4½ inches diameter

Cologne
No. 6919 6-ounce $3 75
No. 6920 8-ounce 4 50

No. 6921 Tooth Pick Holder $1 60
Height, 2½ inches

No. 6923 Cake or Fruit Basket $5 00
Height, 6½ inches Length, 6½ inches

No. 6924 Tea Ball $3 00
Height, 4½ inches

# FINE QUALITY AMERICAN CUT GLASSWARE, OIL BOTTLES AND COMPORTS

PRICES EACH

No. 6925 Oil or Vinegar $6 50

No. 6926 Oil or Vinegar $6 50

No. 6927 Oil or Vinegar $5 25

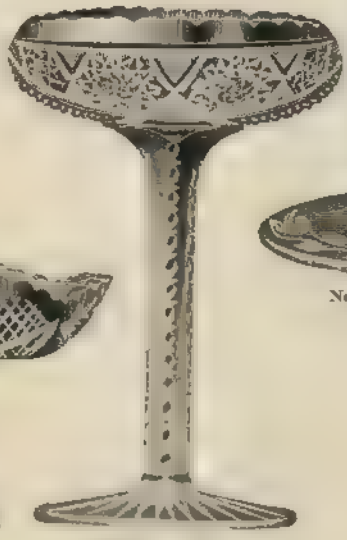
No. 6928 Oil or Vinegar $5 50

No. 6929 Oil or Vinegar $5 00

No. 6930 $4 50
Oil or Vinegar

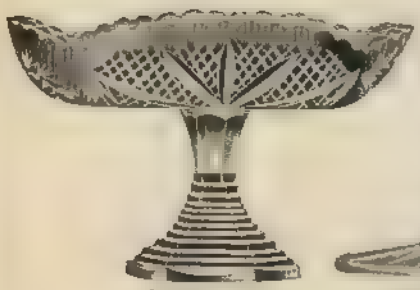
No. 6934 $14 00
Compport
9 inches high

No. 6931 $4 25
Oil or Vinegar



No. 6933 $7 00
Compport

No. 6935 $5 00
Compport



No. 6932 $5 50
Compport

Compport
No. 6936 5 inch $2 75
No. 6936s 6-inch 3 75

# FINE QUALITY AMERICAN CUT CLASSWARE
## TUMBLERS, CUP AND JUGS

PRICES PER SET AND EACH

Tumblers
No. 6937 Per Dozen $24 00
½ pint

Tumblers
No. 6938 Per Dozen $22 00
½ pint

Tumblers
No. 6939 Per Dozen $22 00

Tumbler
No. 6940 Per Dozen $21 00

Tumbler
No. 6941 Per Dozen $16 00

Tumbler
No. 6942 Per Dozen $16 00

Tumbler
No. 6943 Per Dozen $15 00

Tumbler
No. 6944 Per Dozen $12 00

Tumbler
No. 6945 Per Dozen $14 00

Tumbler
No. 6946 Per Dozen $28 00

Iced Tea Glass
No. 6947 Per Dozen $21 00

Tumbler
No. 6948 Per Dozen $12 00

Tumbler
No. 6949 Per Dozen $9 00

Tumblers
No. 6950 Per Dozen $14 00

Punch Cup
No. 6951 Per Dozen $40 00
¼ pint

No. 6952 Water Jug $8 50

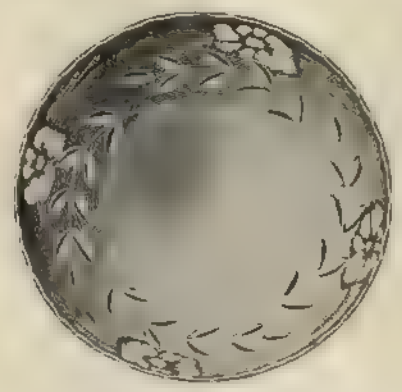
Water Jug
No. 6953 3 pints $8 00
No. 6954 4 pints 11 00

No. 6955 Water Jug $10 00

# FINE AMERICAN CUT GLASSWARE

**CREAM AND SUGAR, NAPPY, WINE GLASSES, TUMBLERS AND TANKARD**
**PRICES PER PAIR AND EACH**

No. 6958 Sugar and Creamer Pair $3 50
Nickel Cut Top



No. 6956 Nappy Each $1 00
Light Crystal to Match Bowl

No. 6957 Champagne Per Dozen $7 50
(Or Fruit Salad)

No. 6959 Sherbet Per Dozen $7 50
(Or Fruit Salad)

No. 6960 Wine Glass
Per Dozen $7 00

No. 6961 Claret Glass Per Dozen $7 50

No. 6962 Iced Tea Glass Per Dozen $7 50
Capacity, 12 ounces

No. 6963 Tumbler Per Dozen $6 50
Capacity, 10 ounces

No. 6964 Tankard Jug Each $3 50
Capacity, 3 Pints

No. 6965 Large Goblet Per Dozen $7 50

# FINE AMERICAN CUT GLASSWARE

SUGAR AND CREAM, GOBLETS, ICED TEA, WINE AND SHERBET GLASSES, TUMBLERS AND TANKARD

PRICES PER SET, DOZEN AND EACH

No. 6980 Sugar and Creamer Per Set $3.00

No. 6969 Goblet Per Dozen $6.00
Capacity, 11 ounces

No. 6970 Iced Tea Tumbler
Per Dozen $6.00
Capacity, 14 ounces

No. 6967 Wine Glass Per Dozen $5.50

No. 6968 Champagne or Fruit Salad
Per Dozen $6.00

No. 6974 Wine Glass
Per Dozen $5.00

No. 6974 Tumbler
Per Dozen $3.50
Capacity, 9 ounces

No. 6971 Ice or Sherbet Cup
Per Dozen $4.50

No. 6972 Sherbet or Ice
Per Dozen $5.50

No. 6975 Tumbler Per Dozen $3.00
Capacity, 10 ounces

No. 6976 Goblet Per Dozen $5.00
Capacity, 11 ounces

No. 6977 Tall Tankard Each $3.00

No. 6978 Champagne Per Dozen $5.00

# FINE AMERICAN CUT GLASSWARE

SHERBET, WINE, ICED TEA, COCK TAIL AND TABLE GLASSES, COMPORTS, FRUIT BASKET AND WATER JUG

PRICES PER DOZEN AND EACH

No. 6979 Sherbet or Fruit Salad
Per Dozen $15 00

No. 6980 Tumbler
Per Dozen $12 00

No. 6981 Claret or Wine Glass
Per Dozen $14 00

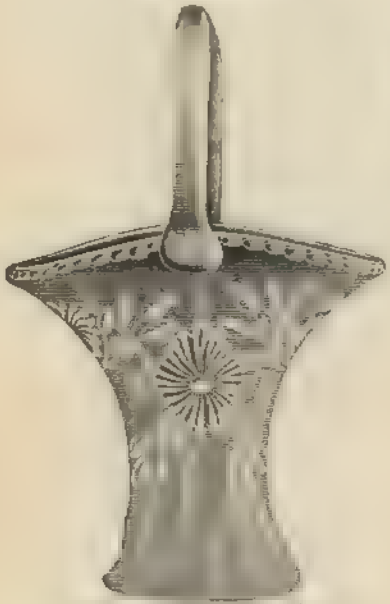
No. 6982 Champagne or Fruit Salad
Per Dozen $15 00

No. 6983 Footed Comport
Each $5 50

No. 6985 Goblet
Per Dozen $16 00

No. 6986 Cocktail
Per Dozen $14.00

No. 6987 Iced Tea or High Ball
Per Dozen $15 00



No. 6988 Floral Basket Each $5 00
6 inches wide, 11 inches high

No. 6989 Tall Comport Each $3.25
Bowl, 6 inches wide

No. 6990 Water Jug Each $5 50
Capacity, 2 quarts

# FINE QUALITY AMERICAN CUT GLASSWARE
## WATER JUGS

PRICES EACH

No. 6991 Water Jug $18 00
Capacity, 4 pints 7¾ inches high

No. 6992 Water Jug $15 00
Capacity, 4 pints 10⅛ inches high

No. 6993 Water Jug $17 00
Capacity, 4 pints 7¾ inches high

Water Jug
No. 6994 $7 00
Capacity, 4 pints 7¼ inches high

No. 6995 $9 00
Capacity, 4 pints 10¼ inches high

No. 6996 Water Jug $8 00
Capacity, 4 pints 10¼ inches high

No. 6997 Water Jug $9 50
Capacity, 4 pints

# FINE QUALITY AMERICAN CUT GLASSWARE

## WATER SETS AND CARAFES

PRICES EACH AND PER SET

| | | |
|---|---|---|
| No. 6998 | 8-Piece Water Set | $17 50 |
| No. 6999 | Pitcher 3 Pints | 6 00 |
| No. 7000 | 6 Tumblers | 6 00 |
| No. 7001 | 14-Inch Plateau | 5 50 |

No. 7003 Water Bottle $7 50
Capacity, 1 Quart

No. 7004 Water Bottle $7 00
Capacity, 1 Quart

No. 7002 Water Set $24 00
Complete—8 Pieces
4 Pint Jug Half Dozen Tumblers 14-inch Plateau

No. 7005 Water Bottle $5 00
Capacity 1 Quart

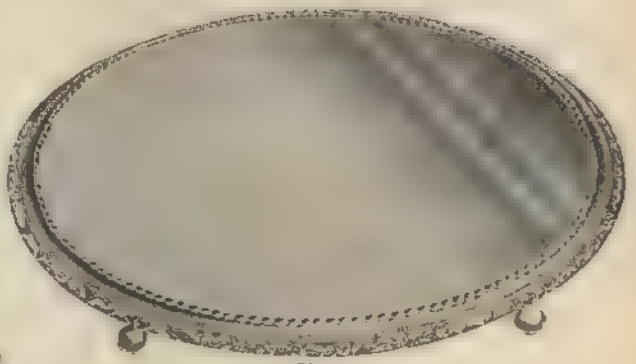
For Other Water Jugs and Tumblers See Pages 495 to 501 inclusive

# FINE QUALITY AMERICAN CUT GLASSWARE SETS AND PLATEAUS

PRICES PER SET AND EACH

No. 7006 Water Set $21 00
Complete, 8 Pieces

| | | |
|---|---|---|
| No. 7007 | 1 Quart Carafe | $7 50 |
| No. 7008 | Half Dozen Tumblers | 8.00 |
| No. 7009 | 14-inch Plateau | 5.50 |



Plateau

| | | |
|---|---|---|
| No. 7014 | 8-inch | $2 75 |
| No. 7015 | 10-inch | 3 50 |
| No. 7016 | 12-inch | 4 25 |
| No. 7017 | 14-inch | 5 50 |
| No. 7018 | 16-inch | 7 25 |
| No. 7019 | 18-inch | 9 25 |

Full Burnished Beaded Beveled Edge Glass

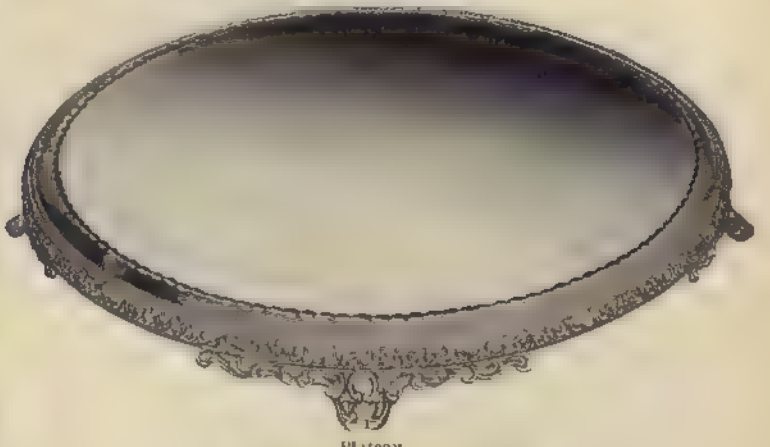
Plateau

| | | |
|---|---|---|
| No. 7020 | 8-inch | $2 75 |
| No. 7021 | 10-inch | 3 50 |
| No. 7022 | 12-inch | 4 25 |
| No. 7023 | 14-inch | 5 50 |
| No. 7024 | 16-inch | 7 25 |
| No. 7025 | 18-inch | 9 25 |

Full Burnished Beaded Beveled Edge Glass

No. 7010 Whiskey Set $22 25
Complete, 8 Pieces

| | | |
|---|---|---|
| No. 7011 | 1 Pint Whiskey Jug | $9 00 |
| No. 7012 | 6 three-ounce Glasses | 9 00 |
| No. 7013 | 12-inch Plateau | 4 25 |



Plateau

| | | |
|---|---|---|
| No. 7026 | 8-inch | $3 50 |
| No. 7027 | 10-inch | 4 25 |
| No. 7028 | 12-inch | 5 25 |
| No. 7029 | 14-inch | 6 50 |
| No. 7030 | 16-inch | 8 50 |
| No. 7031 | 18-inch | 10 75 |

Full Burnished Beaded Beveled Edge Glass

# FINE QUALITY AMERICAN CUT GLASSWARE PUNCH BOWLS

PRICES EACH

No. 7032 Footed Punch Bowl $75 00
[illegible]

No. 7033 Footed Punch Bowl $50 00
12 inches

No 7034 Footed Bowl $11 00
[illegible]

No. 7035 Footed Punch Bowl $20 00
10 inches
Foot can be used as a Comport

# FINE QUALITY AMERICAN CUT GLASSWARE, VASES, ETC.

PRICES EACH

Vase

| | | |
|---|---|---|
| No. 7036 | 8 inches high | $4 50 |
| No. 7037 | 10 inches high | 6 50 |
| No. 7038 | 12 inches high | 9 00 |

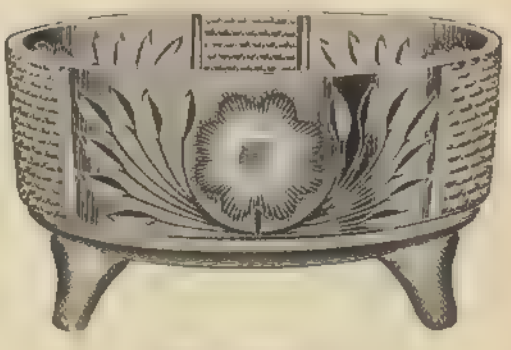
No. 7040 Vase $12.50
12 inches high

No. 7039 Vase $50 00
16 inches high

No. 7041 Fern Dish $8 50
8 inches long

No. 7044 Vase $8 00
[illegible] high

No. 7045 Ice Tub $8 00

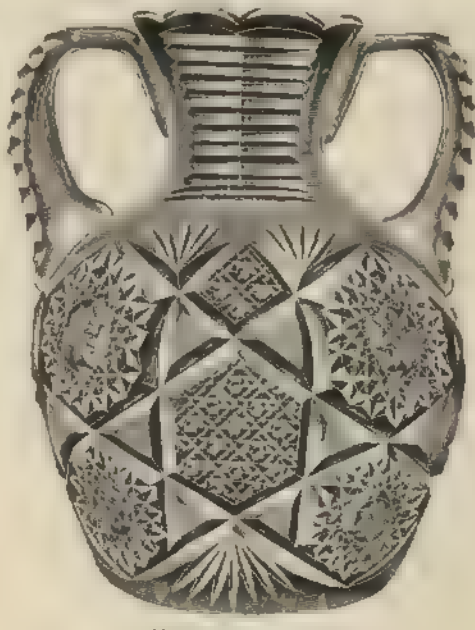


No. 7042 Fern Dish $10 00
[illegible]

# FINE QUALITY AMERICAN CUT GLASSWARE VASES

PRICES EACH

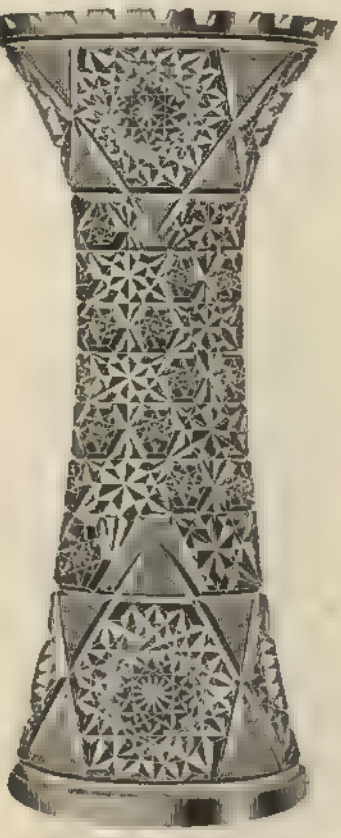
No. 7045 Vase $20 00
12 inches high



No. 7046 Vase $23 50
[illegible]

No. 7047 Vase $24 00
14 inches high

No. 7048 Vase $12 00
12 inches high



No. 7050 Vase $17.00
12 inches high

No. 7049 Vase $25.00
16 inches high

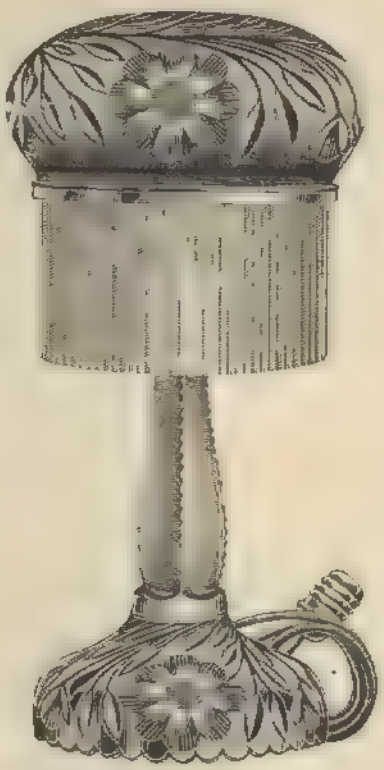
No. 7051 Vase $10 50
12 inches high

# FINE QUALITY AMERICAN CUT GLASSWARE ELECTROLIERS AND DECANTER

PRICES EACH

No. 7852 Electrolier, Complete $75 00
[illegible]
12-inch shade

No. 7853 Electrolier, Complete $55 00
18 inches high
10-inch shade



No. 7854 $18 00
Electrolier, Complete
Height, 12 inches. Diameter of shade, 6 inches

No. 7855 Decanter $17 00
Capacity, 1 quart

# WYETH SHIELD BRAND POCKET KNIVES

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| K1152 | | 910 |
| K1153 | | 910 |
| K1154 | | 910 |
| K1155 | | 910 |
| | **50-CENT KNIVES** | |
| K401 | | 918 |
| K423 | | 909 |
| | **65-CENT KNIVES** | |
| K138SP | | 910 |
| K204 | | 912 |
| K214 | | 912 |
| K219 | | 912 |
| K224 | | 912 |
| K229 | | 912 |
| K234 | | 912 |
| K244 | | 912 |
| K249 | | 912 |
| K1041 | | 911 |
| K1042 | | 911 |
| K1046 | | 911 |
| K1047 | | 911 |
| | **75-CENT KNIVES** | |
| K103 | | 911 |
| K113 | | 909 |
| K122 | | 909 |
| K127 | | 909 |
| K133SP | | 909 |
| K1043 | | 909 |
| K1044 | | 909 |
| K1092 | | 909 |
| | **85-CENT KNIVES** | |
| K100 | | 911 |
| K310 | | 911 |
| K981 | | 911 |
| K982 | | 909 |
| K983 | | 909 |
| | **$1.00 KNIVES** | |
| K1000 | | 912 |
| | **$1.50 KNIVES** | |
| K6065 | | 911 |
| K6066 | | 911 |
| K7474 | | 911 |
| | **$1.75 KNIVES** | |
| K100SS | | 911 |
| | **$2.50 KNIVES** | |
| K105 | | 911 |

# WYETH SHIELD BRAND POCKET KNIVES

## FULLY WARRANTED

ILLUSTRATIONS FULL SIZE

All WYETH SHIELD BRAND pocket knives are forged from the very best English Wardlow steel, correctly hardened and tempered by the most advanced processes of modern cutlers; every blade honed and ready for use; absolutely guaranteed against defects in material or workmanship.

No. A1 No. A5 No. A222 No. A12 No. A12G

| | Doz. |
|---|---|
| Pruning blade, polished and etched; polished iron bolster; iron lined; weight per dozen 2¼ lbs. | |
| **No. A1—Ebony handle** | $ 8 00 |
| Pruning blade, polished and etched; polished iron bolster; iron lined, weight per dozen 3 lbs | |
| **No. A5—Cocobolo handle** | 8 00 |
| Kaffir corn knife blade, polished and etched, polished iron bolster and German silver shield, brass lined weight per dozen 3½ lbs | |
| **No. A222—Imitation stag handle** | 9 00 |
| Large pruning blade, polished and etched; polished iron bolster and cap, iron lined; weight per dozen 3¾ lbs. | |
| **No. A11—Ebony handle** | 12.00 |
| **No. A12—Imitation stag handle** | 13.00 |
| Large pruning blade, polished and etched; polished iron bolster and cap, iron lined; weight per dozen 3¾ lbs. | |
| **No. A12G—Genuine stag handle** | 15.00 |

**Packed, one-half dozen in box.**

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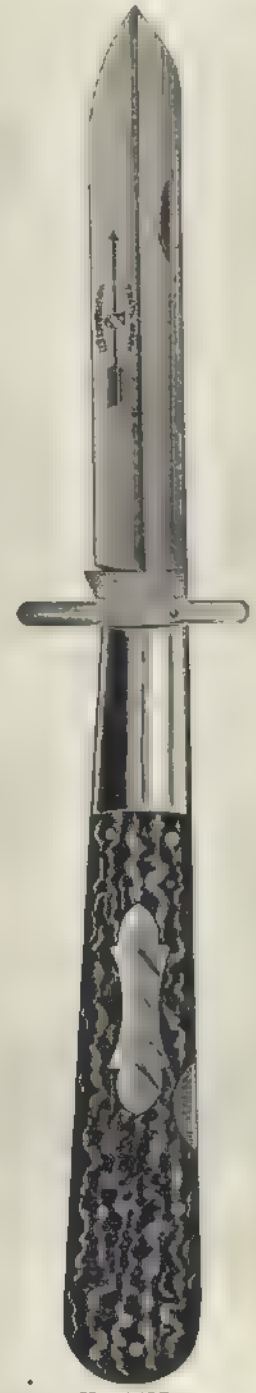
No. A027

No. A27G



No. A42G

No. A49

No. A56

Doz.

Hunting blade clip point, polished and etched, lock back, German silver bolster and shield brass lined, wt per doz 3 lbs
**No. A027—Imitation stag handle** ..... $14.00

Hunting blade, clip point, polished and etched, lock back; polished iron bolster, iron lined, wt. per doz 3 lbs
**No. A27G—Genuine stag handle**..... 9 80

Dirk blade, polished and etched, lock back, German silver bolster guard and shield, brass lined, wt per doz 3 lbs
**No. A42G—Genuine stag handle**..... 22.00

Dirk blade, full Crocussed and etched, lock back, German silver bolsters and guard; brass lined, wt per doz 1¼ lbs.
**No. A47G** Genuine stag handle ..... $22 00 **No. A49** Pearl handle ..... 32 00

Hunting blade clip point, polished and etched; polished iron bolsters and shield, iron lined; wt. per doz 4¾ lbs
**No. A56—Ebony handle** ..... 18.50 **No. A57—Imitation stag handle.** ..... 14 00

Packed, one-half dozen in box.

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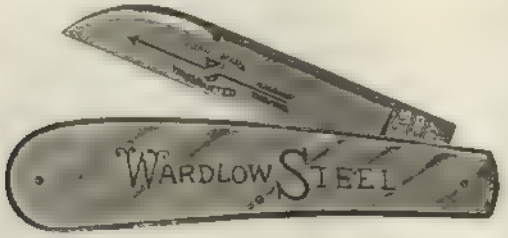
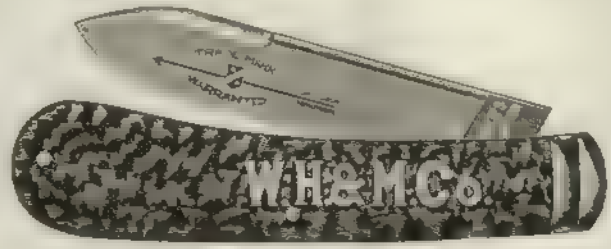


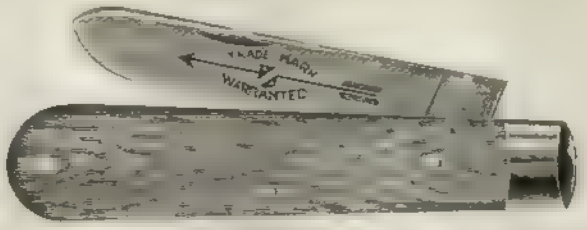

One blade, sheep foot, full Crocussed and etched; steel lined; weight per dozen 1 lb. Doz.
No. A63—Nickel-steel handle ..... $ 3 50



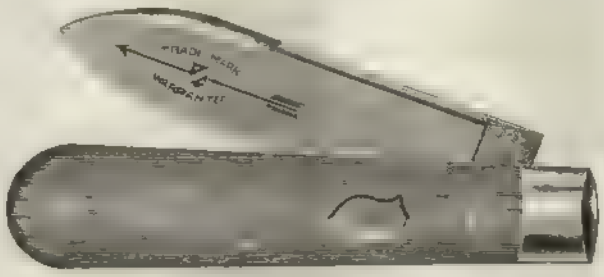

One blade, spear point, polished and etched; iron lined; weight per dozen 2⅛ lbs Doz.
No. A65 Iron handle ..... $ 4.00

One blade, spey, polished and etched; iron lined; weight per dozen 2⅛ lbs. Doz.
No. A66 Iron handle ..... $ 4 00

One blade, spear point, polished and etched; polished iron bolster; iron lined; weight per dozen 12 oz. Doz
No. A211—Ebony handle ..... $ 4 00

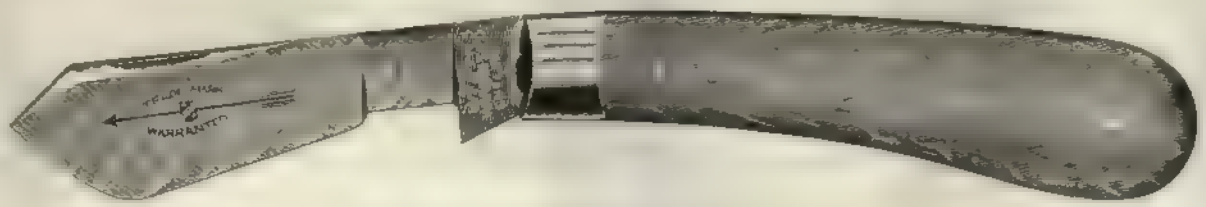


One blade, spey, polished and etched; polished iron bolster, iron lined, weight per dozen 1¾ lbs Doz
No. A115—Cocobolo handle ..... $ 4 00

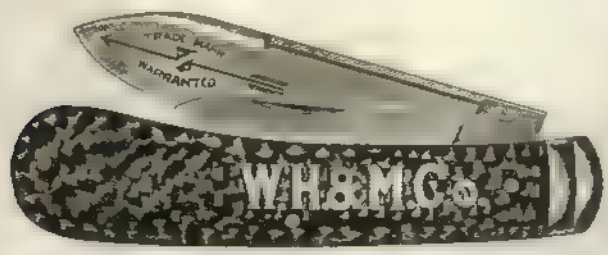


No. A150

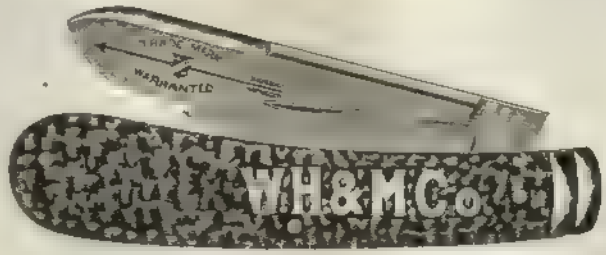
One blade, spear point, polished and etched; polished iron bolster and shield; iron lined; weight per dozen 1¾ lbs. Doz
No. A150—Cocobolo handle ..... $ 4 00
No. A151 Ebony handle 4 00



One blade, cotton knife, polished and etched; polished iron bolster; Iron lined, weight per dozen 2¼ lbs Doz.
No. A85—Cocobolo handle ..... $10.00




Two blades, large spear and pen, polished and etched; iron lined; weight per dozen 2½ lbs. Doz.
No. B65—Iron handle ..... $ 6 00




Two blades, large spey and pen, polished and etched; iron lined, weight per dozen 2½ lbs. Doz.
No. B66 Iron handle ..... $ 6 00

Packed, one-half dozen in box.

# WYETH SHIELD BRAND POCKET KNIVES

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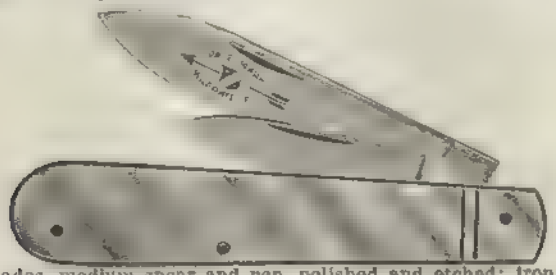
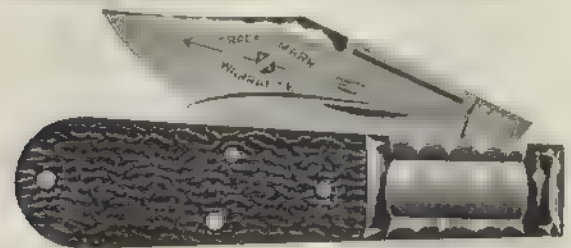
Two blades, large spear and pen, polished and etched, iron lined, weight per dozen 2 lbs Doz

No. B50—Nickel plated iron handle.....$ 8.00



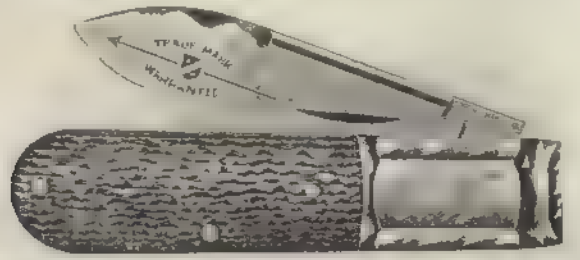
Two blades, medium spear and pen, polished and etched; iron lined; weight per dozen 1 ¾ lbs Doz

No. B123 German silver handle . $ 4 00



Two blades, large clip and pen, polished and etched; polished iron bolster, iron lined, weight per dozen 2 lbs Doz.

No. B81—Patent stag handle .....$ 7.30

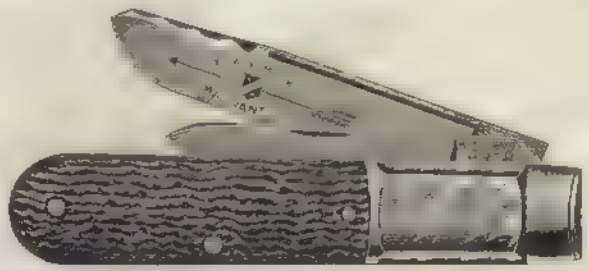


Two blades, large spear and pen, polished and etched; polished iron bolster, iron lined, weight per dozen 2 lbs Doz

No. B80—Patent stag handle .....$ 7.30

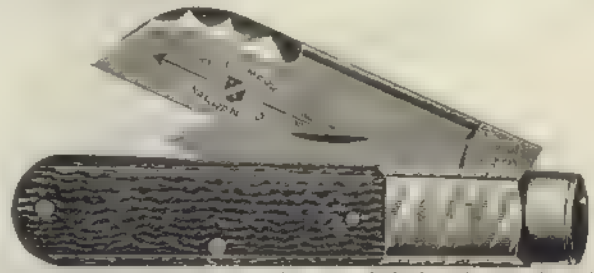
Two blades, long spear and pen, polished and etched; German silver bolster and shield, brass lined, weight per dozen 1 ¾ lbs Doz.

No. B757—Imitation stag handle . . ..$ 3 00



Two blades, large spey and pen, polished and etched; polished iron bolster; iron lined; weight per dozen 2 lbs. Doz

No. B82 - Patent stag handle.....$ 7.30

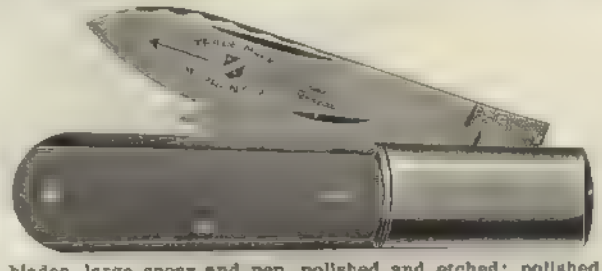


Two blades, large sheep foot and pen, polished and etched, polished iron bolster; iron lined; weight per dozen 2 lbs Doz

No. B83 Patent stag handle . . . . .$ 7 30

Two blades, razor and pen, polished and etched, polished iron bolster, iron lined; weight per dozen 2 lbs. Doz.

No. B84—Patent stag handle.....$ 7.30



Two blades, large spear and pen, polished and etched; polished iron bolster; iron lined; weight per dozen 2 lbs Doz

No. B80—Patent stag handle.. . . . ....$ 4.50

Two blades, large clip and pen, polished and etched; polished iron bolster; iron lined; weight per dozen 2 lbs. Doz.

No. B91—Patent stag handle .. . ..... ..... ..... ..$ 4.50

Packed, one-half dozen in box.

# WYETH SHIELD BRAND POCKET KNIVES

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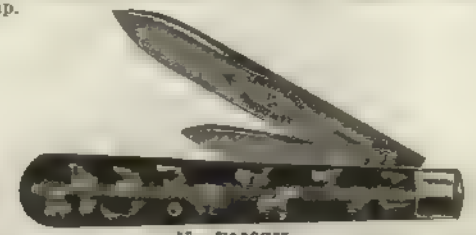


No. B103SH

Two blades, small spear and pen, polished and etched; German silver bolster, brass lined weight per dozen 12 oz

| | Doz |
|---|---|
| No. B103SH—Shell handle | $ 8.00 |
| No. B104—Pearl handle | 13.00 |

No. B1504

Two blades, small spear and pen, polished and etched; German silver bolster, cap and shield; brass lined; weight per dozen 14 oz.

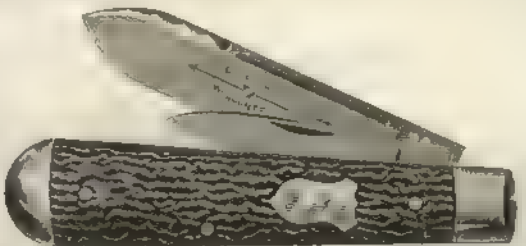
| | Doz. |
|---|---|
| No. B1501B—Buffalo horn handle | $11.50 |
| No. B1504—Pearl handle | 20.00 |

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 1⅛ lbs.

| | Doz. |
|---|---|
| No. B928SH—Shell handle | $ 9.00 |

Two blades medium spear and pen, full Crocuased and etched; German silver bolsters and shield; brass lined; weight per dozen 1½ lbs.

| | Doz |
|---|---|
| No. B909—Pearl handle | 22.00 |



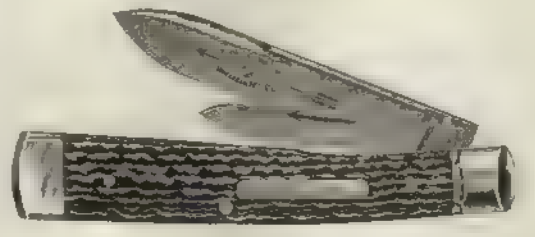
Two blades, medium spear and pen, polished and etched; polished iron bolsters and shield; brass lined; weight per dozen 1½ lbs.

| | Doz. |
|---|---|
| No. B387 Imitation stag handle | $ 6.50 |

No. B904

Two blades, small spear and pen, polished and etched; German silver bolsters; brass lined, weight per dozen 14 oz.

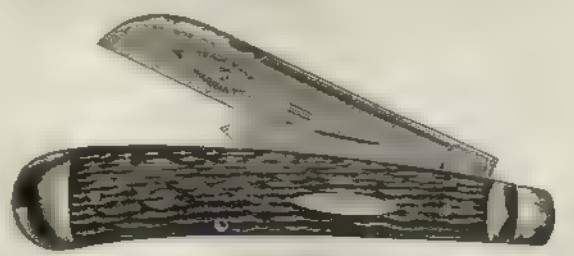
| | Doz |
|---|---|
| No. B901—Ebony handle | $ 8.00 |
| No. B902—Imitation stag handle | 8.00 |
| No. B903—Composition white handle | 8 00 |
| No B904—Pearl handle | 13 50 |



No. B1027

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 1⅛ lbs.

| | Doz |
|---|---|
| No. B1026B Buffalo horn handle | $ 9.00 |
| No. B1027—Imitation stag handle | 8 00 |
| No. B1028B—Composition blue handle | 9 00 |
| No. B1028R—Composition red handle | 9 00 |
| No. B1029—Pearl handle | 18 00 |



No. B952

Two blades, large sheep foot and pen, polished and etched; German silver bolsters and shield; brass lined; wt per doz 1½ lbs

| | Doz. |
|---|---|
| No. B951—Ebony handle | $ 8 00 |
| No. B952 Imitation stag handle | 8 00 |

Two blades, medium clip and pen, polished and etched, polished iron bolsters and shield; brass lined; weight per dozen 1½ lbs.

| | Doz. |
|---|---|
| No. B397—Imitation stag handle | $ 8 50 |

Packed, one-half dozen in box.

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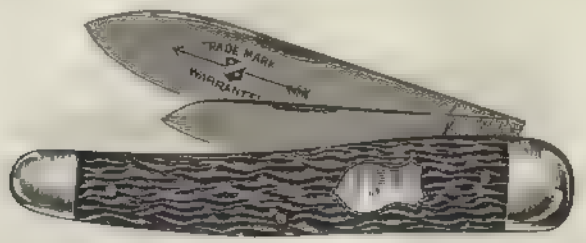
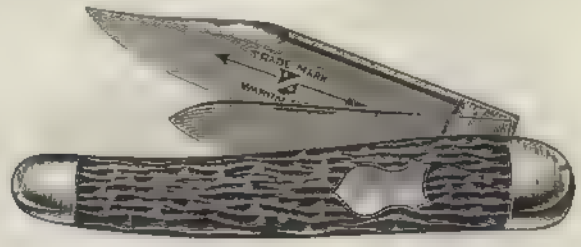



Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2 lbs.

| | Doz |
|---|---|
| No. B1902—Imitation stag handles | $ 8.00 |



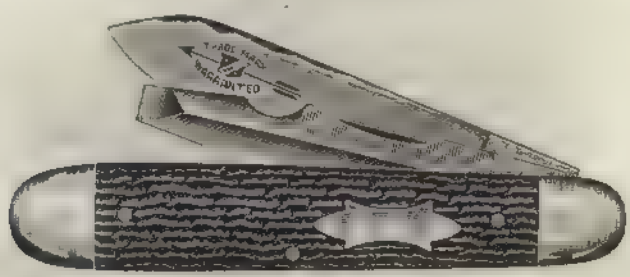

Two blades, medium clip and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2 lbs.

| | Doz |
|---|---|
| No. B1907—Imitation stag handle | $ 8.00 |

No. B932

Two blades, medium clip and pen, polished and etched; polished iron bolsters and shield; brass lined; weight per dozen 2½ lbs.

| | Doz. |
|---|---|
| No. B930—Cocobolo handle | $ 8.00 |
| No. B931—Ebony handle | 8.00 |
| No. B932—Imitation stag handle | 8.00 |




Two blades, large spear and combination wire scraper, screwdriver and file; polished and etched; German silver bolsters and shield; brass lined; especially for electricians; weight per dozen 2¼ lbs.

| | Doz. |
|---|---|
| No. B1642—Imitation stag handle | $14.00 |

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2 lbs.

| | Doz. |
|---|---|
| No. B996—Ebony handle | $11.00 |

Two blades, large clip and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2 lbs

| | Doz. |
|---|---|
| No. B767—Imitation stag handle | $12 00 |

No. B575

Two blades, large spear and pen, polished and etched; polished iron bolsters; German silver shield; brass lined; weight per dozen 2¾ lbs.

| | Doz |
|---|---|
| No. B575—Cocobolo handle | $ 9 00 |
| No. B576—Ebony handle | 9 00 |
| No. B577—Imitation stag handle | 9 00 |

No. B587

Two blades, large spear and pen, polished and etched; polished iron bolsters; German silver shield; brass lined; weight per dozen 3 lbs.

| | Doz. |
|---|---|
| No. B585—Cocobolo handle | $ 9.00 |
| No. B586—Ebony handle | 9.00 |
| No. B587 Imitation stag handle | 9 00 |

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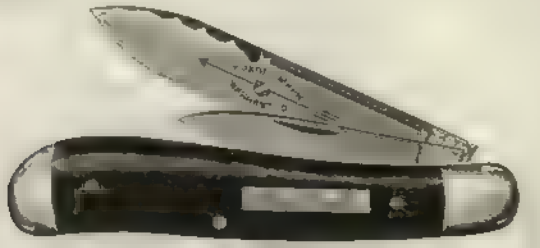
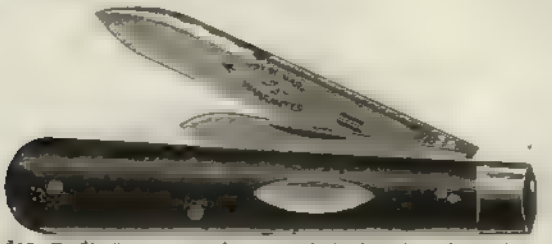


No. B921

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; wt. per doz. 2½ lbs.

| | Doz. |
|---|---|
| No. B921 Ebony handle | $ 8 00 |
| No. B922—Imitation stag handle | 8.00 |

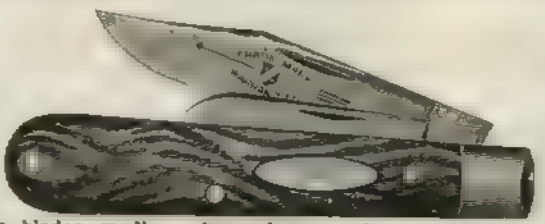


Two blades, medium spear and pen, polished and etched; German silver bolster and shield, brass lined, wt per doz. 1¼ lbs.

| | Doz |
|---|---|
| No. B171 Ebony handle | $ 8 00 |

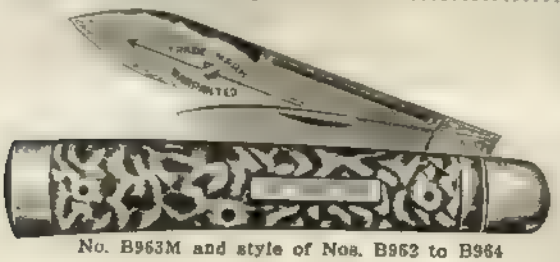
Two blades, medium spear and pen, polished and etched, steel bolster and German silver shield; brass lined; weight per dozen 1½ pounds.

| | Doz. |
|---|---|
| No. B1700—Cocobolo handle | $ 6 00 |
| No. B1701—Ebony handle | 6 00 |

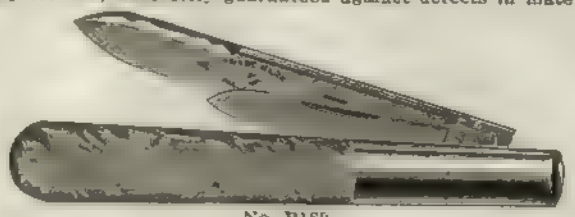


Two blades, medium clip and pen, polished and etched; steel bolster and German silver shield; brass lined; weight per dozen 1½ pounds.

| | Doz |
|---|---|
| No. B1705—Cocobolo handle | $ 6.00 |
| No. B1706—Ebony handle | 6.00 |
| No. B1707—Imitation stag handle | 6.00 |



No. B963M and style of Nos. B962 to B964



No. B189

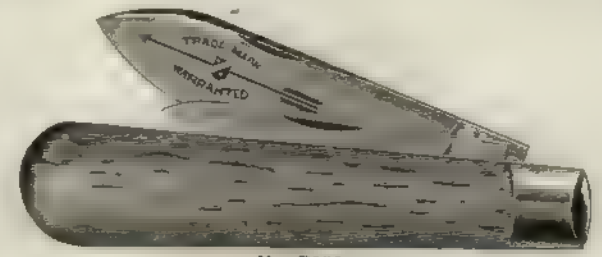
Two blades, long spear and pen, polished and etched; polished iron bolster; iron lined; weight per dozen 1¼ lbs.

| | Doz. |
|---|---|
| No. B187 Imitation stag handle | $ 8 00 |
| No. B187G—Genuine stag handle | 8 50 |
| No. B188M Composition mottled handle | 8.00 |
| No. B189—Pearl handle | 13.00 |

No. B1534

Two blades, long spear and pen polished and etched, German silver bolster and cap; brass lined; weight per dozen 1¼ lbs.

| | Doz. |
|---|---|
| No. B1531S—Buffalo horn handle | $11.50 |
| No. B1532—Imitation stag handle | 12.00 |
| No. B1534—Pearl handle | 23.00 |




No. B120

Two blades, medium spear and pen, polished and etched; polished iron bolster; brass lined; weight per dozen 2 lbs.

| | Doz |
|---|---|
| No. B120—Cocobolo handle | $ 4 50 |
| No. B121—Ebony handle | 4 50 |

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 1½ lbs.

| | Doz |
|---|---|
| No. B738M—Composition handle | $ 9 00 |

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 1½ lbs

| | Doz. |
|---|---|
| No. B962—Imitation stag handle | $ 9.00 |
| No. B963M—Composition handle | 9.00 |
| No. B963SH—Shell handle | 9.00 |
| No. B964—Pearl handle | 18.50 |

**Packed, one-half dozen in box**

# WYETH SHIELD BRAND POCKET KNIVES

## FULLY WARRANTED

ILLUSTRATIONS FULL SIZE

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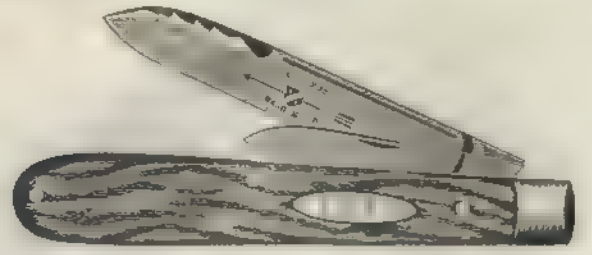
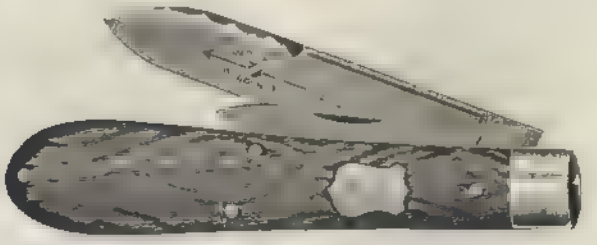


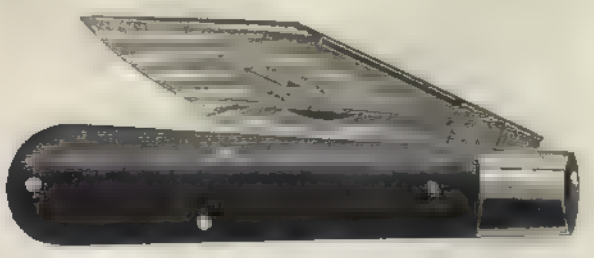
Two blades, medium spear and pen, polished and etched; German silver bolster and shield; brass lined; weight per dozen 1¼ lbs

| | Doz |
|---|---|
| No. B176—Cocobolo handle | $ 5 50 |



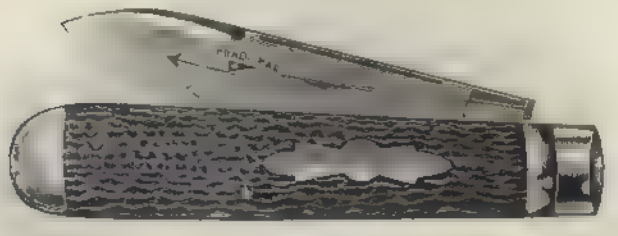
Two blades, large spear and pen, polished and etched; German silver bolster and shield; brass lined; weight per dozen 1¾ lbs.

| | Doz |
|---|---|
| No. B205—Cocobolo handle | $ 7.50 |



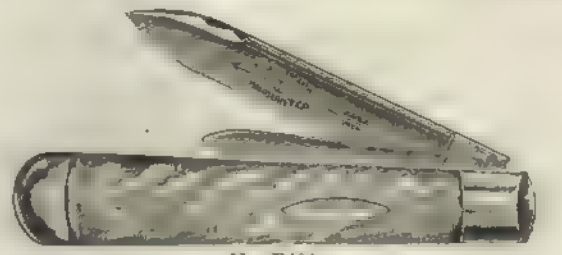
Two blades, medium clip and pen, polished and etched; polished iron bolster; brass lined; weight per dozen 1¾ lbs

| | Doz |
|---|---|
| No. B125—Cocobolo handle | $ 4 50 |



Two blades, large spear and medium pen, polished and etched, German silver bolsters and shield; brass lined; weight per dozen 2 lbs.

| | Doz |
|---|---|
| No. B1407—Imitation stag handle | $ 8 00 |



No. B404

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; wt. per doz. 1⅛ lbs.

| | Doz. |
|---|---|
| No. B402—Imitation stag handle | $ 8 00 |
| No. B404—Pearl handle | 20 00 |

No. B553M

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 1¾ lbs.

| | Doz |
|---|---|
| No. B550 Cocobolo handle | $ 8 00 |
| No. B551—Ebony handle | 8 00 |
| No. B552 Imitation stag handle | 8 00 |
| No. B553B—Composition blue handle | 9 50 |
| No. B553M—Composition mottled handle | 9 50 |
| No. B553R—Composition red handle | 9 50 |

No. B392

Two blades, medium clip and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 1¾ lbs.

| | Doz |
|---|---|
| No. B391B Buffalo horn handle | $ 8.50 |
| No. B392—Imitation stag handle | 8 50 |
| No. B394—Pearl handle | 17 00 |

Two blades, large spear and pen, full Crocussed and etched; German silver bolsters and shield; brass lined; weight per dozen 2 lbs.

| | Doz |
|---|---|
| No. B234—Pearl handle | $27.00 |

Packed, one-half dozen in box.

# WYETH SHIELD BRAND POCKET KNIVES

## FULLY WARRANTED

ILLUSTRATIONS FULL SIZE

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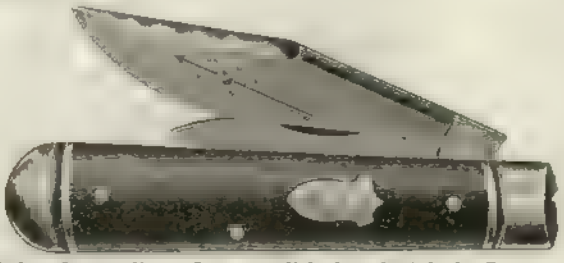
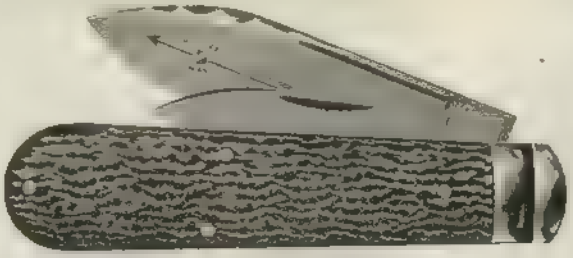


Two blades, large clip and pen, polished and etched; German silver bolsters and shield; brass lined; wt. per doz. 1¾ lbs.

| | Doz. |
|---|---|
| No. B411—Ebony handle | $ 8.00 |

Two blades, large spear and pen, polished and etched; polished iron boster and shield; brass lined; weight per dozen 2 lbs.

| | Doz |
|---|---|
| No. B326—Cocobolo handle | $ 7 00 |



Two blades, large spear and pen, polished and etched; polished iron bolster; iron lined; weight per dozen 2½ lbs.

| | Doz. |
|---|---|
| No. B262 Imitation stag handle | $ 5 00 |

Two blades, large clip and pen, polished and etched; polished iron bolster; iron lined; weight per dozen 1¾ lbs.

| | Doz. |
|---|---|
| No. B267 Imitation stag handle | $ 6 00 |

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; wt. per doz. 2 lbs

| | Doz. |
|---|---|
| No. B417 Imitation stag handle | $ 8 50 |

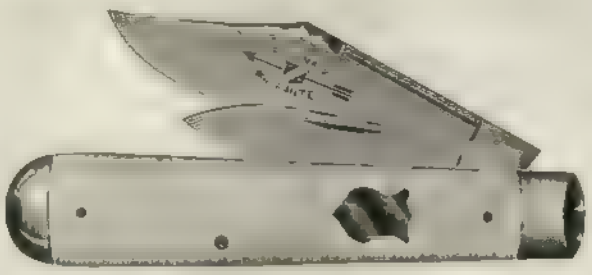
No. B408

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 1¾ lbs.

| | Doz |
|---|---|
| No. B408 —White bone handle | $ 8.00 |
| No. B408SH Shell handle | 8.00 |
| No. B408SP —Smoked pearl handle | 8.00 |
| No. B427 —Imitation stag handle | 8.00 |

Two blades, large spear and pen, polished and etched; polished iron bolsters and shield; brass lined; weight per dozen 2 lbs.

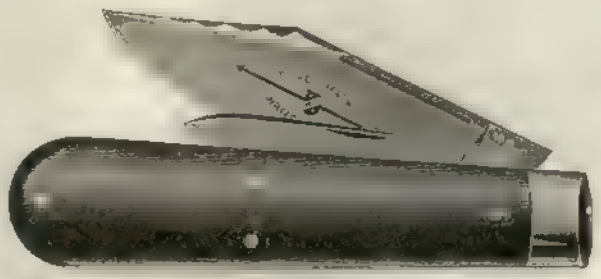
| | Doz. |
|---|---|
| No. B406—Ebony handle | $ 8.00 |
| No. B407—Imitation stag handle | 8.00 |



No. B428

Two blades, medium clip and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 1¾ lbs.

| | Doz |
|---|---|
| No. B428 —White bone handle | $ 8.00 |
| No. B428SP —Smoked pearl handle | 8.00 |



No. B131

Two blades, large clip and pen, polished and etched; polished iron bolster; brass lined, weight per dozen 2 lbs.

| | Doz. |
|---|---|
| No. B130—Cocobolo handle | $ 4.00 |
| No. B131 —Ebony handle | 4 00 |
| No. B132—Imitation stag handle | 4.00 |

Packed, one-half dozen in box.

# WYETH SHIELD BRAND POCKET KNIVES

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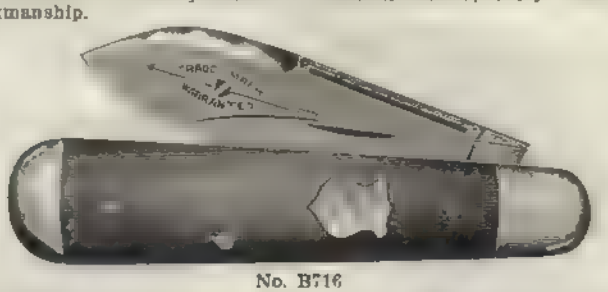
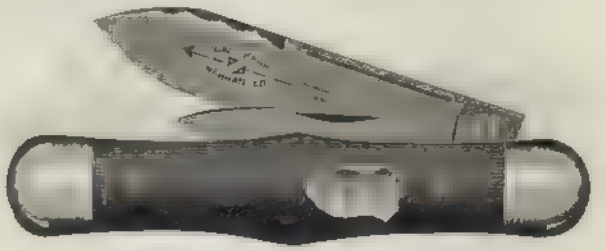


No. B716

Two blades, large spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2 lbs.

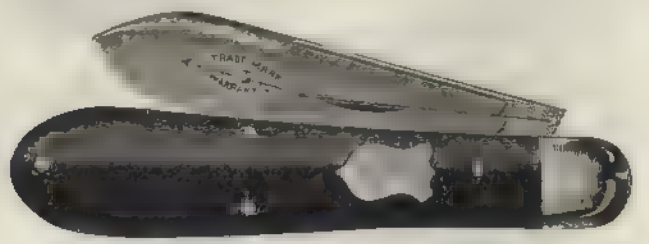
| | Doz |
|---|---|
| No. B716—Ebony handle | $ 8.00 |
| No. B717 —Imitation stag handle | 9.50 |



No. B701

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; screwed handle; brass lined; weight per dozen 2¼ lbs.

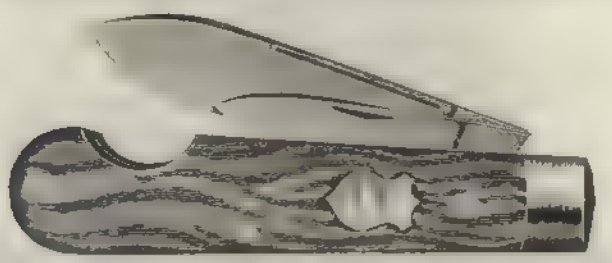
| | Doz |
|---|---|
| No. B700—Cocobolo handle | $ 9 00 |
| No. B701—Ebony handle | 9 00 |
| No. B701B—Buffalo horn handle | 9 00 |
| No. B702—Imitation stag handle | 9 00 |



No. B211

Two blades, medium spear and pen, polished and etched; polished iron bolster and shield; iron lined; weight per dozen 2¼ lbs.

| | Doz |
|---|---|
| No. B210—Cocobolo handle | $ 7 00 |
| No. B211—Ebony handle | 7.00 |



No. B1800

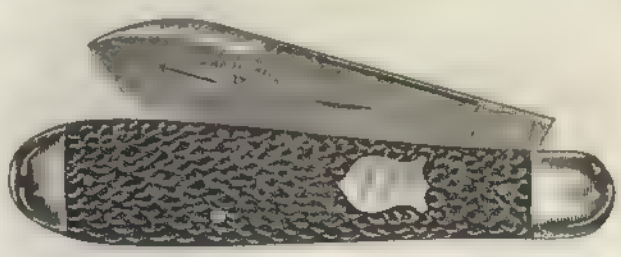
Two blades, medium spear and pen, polished and etched; polished iron bolster and shield; brass lined; easy opener; weight per dozen 1¾ lbs.

| | Doz. |
|---|---|
| No. B1800—Cocobolo handle | $ 6.00 |
| No. B1801—Ebony handle | 6.00 |

No. B600

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 1¾ lbs.

| | Doz |
|---|---|
| No. B600—Cocobolo handle | $ 9.50 |
| No. B601—Ebony handle | 9.50 |
| No. B602—Imitation stag handle | 10.50 |



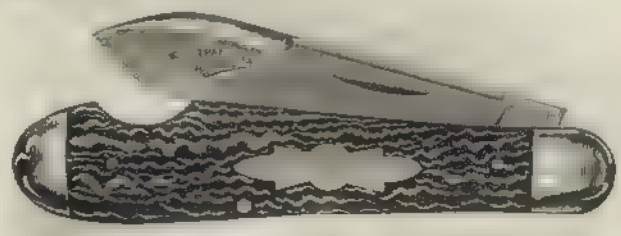
No. B742

Two blades, medium spear and pen, polished and etched; polished iron bolsters and shield; brass lined; weight per dozen 2½ lbs.

| | Doz |
|---|---|
| No. B740—Cocobolo handle | $ 8.00 |
| No. B741—Ebony handle | 8 00 |
| No. B742 —Imitation stag handle | 8 00 |

Two blades, medium clip and pen, polished and etched; polished iron bolsters and shield, brass lined; weight per dozen 2¼ lbs

| | Doz |
|---|---|
| No. B745 —Cocobolo handle | $ 8 00 |



No. BS02G

Two blades, medium spear and pen, polished and etched; polished iron bolsters and shield; brass lined; easy opener; weight per dozen 2¼ lbs.

| | Doz |
|---|---|
| No. B800—Cocobolo handle | $ 8 00 |
| No. B801—Ebony handle | 8 00 |
| No. B802—Imitation stag handle | 8 50 |
| No. B802G—Genuine stag handle | 10.50 |

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# WYETH SHIELD BRAND POCKET KNIVES

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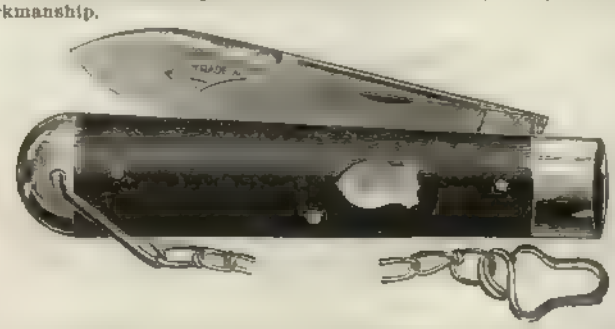
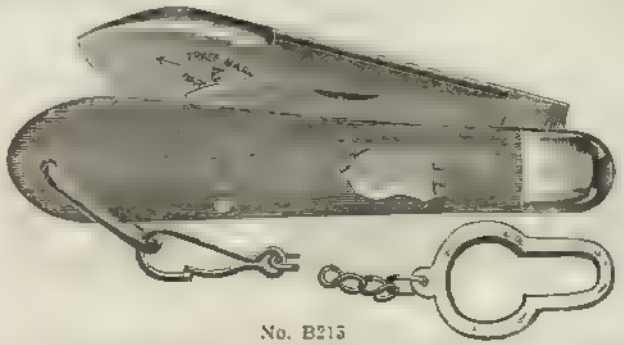


Two blades, medium spear and pen polished and etched; polished iron bolsters and shield, iron lined; 18 inch chain with button loop, weight per dozen 3 lbs. Doz

No. B436 Ebony handle . . . . . $ 8.00



No. B215

Two blades, medium spear and pen, polished and etched; polished iron bolsters and shield; brass lined; 15-inch chain with snap and button loop; weight per dozen 2¼ lbs. Doz.

No. B215—Cocobolo handle ..... $ 7.50

No. B216—Ebony handle ..... 7.50

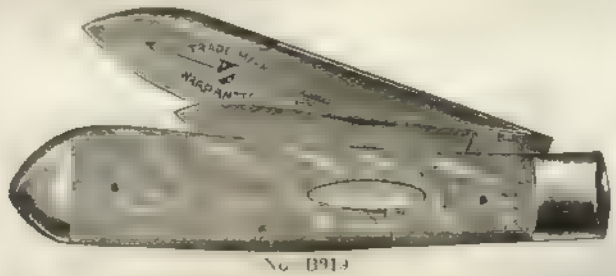
No B110

Two blades, large spear and pen, polished and etched; polished iron bolster; brass lined; weight per dozen 1½ lbs Doz

No. B110 Cocobolo handle ..... $ 4 00

No. B111 Ebony handle ..... 4 00

No. B112 Imitation stag handle . . 4.00



No. B919

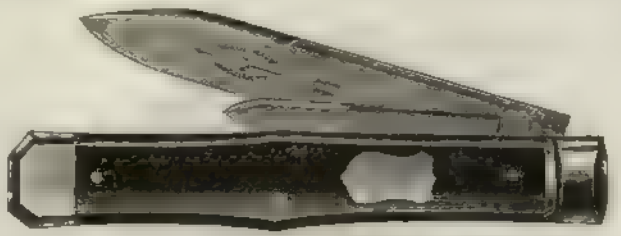
Two blades, medium spear and pen, polished and etched, polished iron bolsters; German silver shield; brass lined; weight per dozen 1¾ lbs Doz.

No. B915—Cocobolo handle . . . $ 8 00

No. B916—Ebony handle . . . . . 8 00

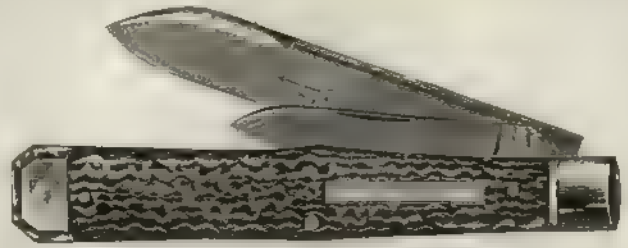
No. B917—Imitation stag handle ..... 8 50

No. B919—Pearl handle; German silver bolsters.. . 30 00



Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; wt. per doz. 2 lbs. Doz

No. B1016—Ebony handle ..... $11.00



Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2¼ lbs. Doz.

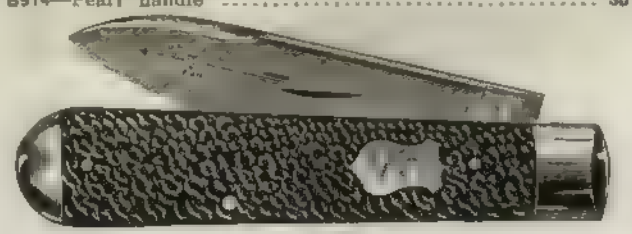
No. B1022G—Genuine stag handle . . $12.00

No. B914

Two blades, medium spear and pen, full Crocussed and etched; German silver bolsters and shield; brass lined; weight per dozen 2¼ lbs. Doz.

No. B912—Imitation stag handle..... $12 00

No. B914—Pearl handle ..... 30 00



No. B432

Two blades, medium spear and pen, polished and etched; polished iron bolsters and shield; brass lined; weight per dozen 2¼ lbs Doz.

No. B431—Ebony handle ..... $ 8.00

No. B432—Imitation stag handle..... 9 00

Two blades, large sheep foot and pen, polished and etched, German silver bolsters and shield; brass lined; weight per dozen 2 lbs. Doz.

No. B955—Cocobolo handle ..... $ 9.00

Packed, one-half dozen in box

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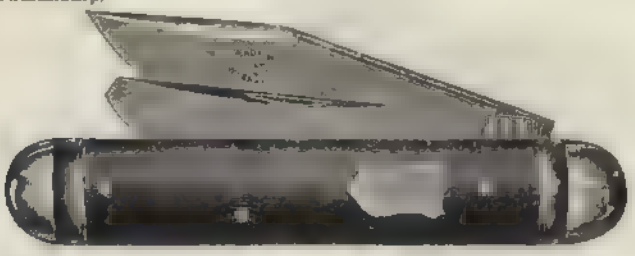
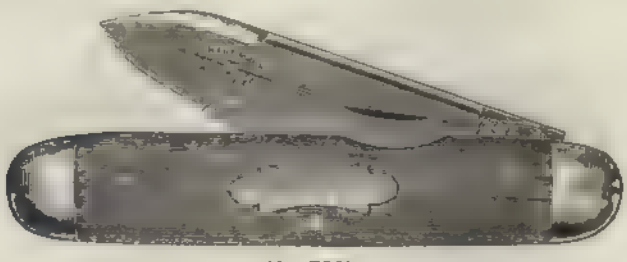


No. B641

Two blades, medium clip and spey, polished and etched; polished iron bolsters, German silver shield; brass lined; weight per dozen 2¼ lbs.

| | Doz. |
|---|---|
| No. B641—Ebony handle | $ 8 50 |
| No. B642—Imitation stag handle | 9.00 |



No B560

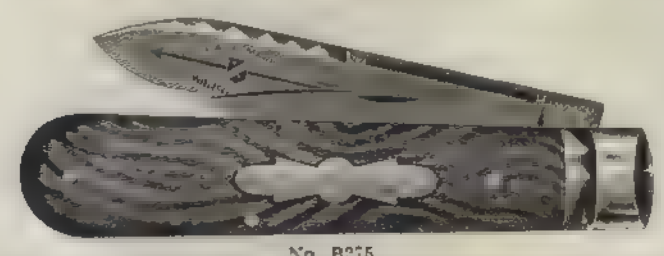
Two blades, medium spear and pen, polished and etched; polished iron bolsters and shield, brass lined weight per dozen 2¼ lbs.

| | Doz. |
|---|---|
| No. B560—Cocobolo handle | $ 8.00 |
| No. B561 Ebony handle | 8.00 |
| No. B562—Imitation stag handle | 9.00 |

No. B622

Two blades, medium spear and pen, polished and etched; polished iron bolsters and shield; brass lined, weight per dozen 2½ lbs.

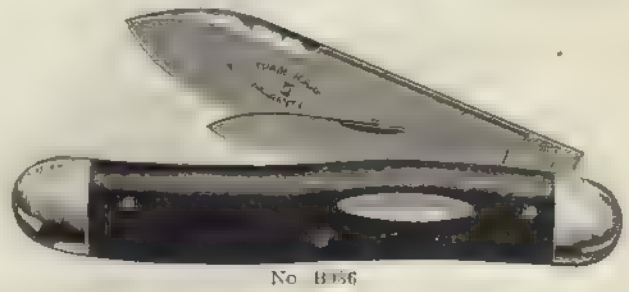
| | Doz. |
|---|---|
| No. B621—Ebony handle; brass lined | $ 8 00 |
| No. B622—Imitation stag handle; brass lined. | 8 50 |



No B275

Two blades, medium spear and pen, polished and etched; polished iron bolster and shield; brass lined; weight per dozen 2½ lbs

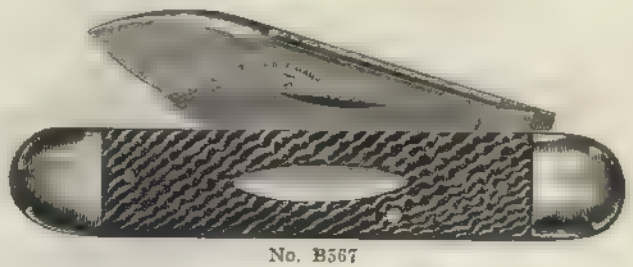
| | Doz. |
|---|---|
| No. B275—Cocobolo handle | $ 8.00 |
| No. B276—Ebony handle | 8.00 |
| No. B277—Imitation stag handle | 8.50 |



No B936

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; wt. per doz. 2¼ lbs. Doz.

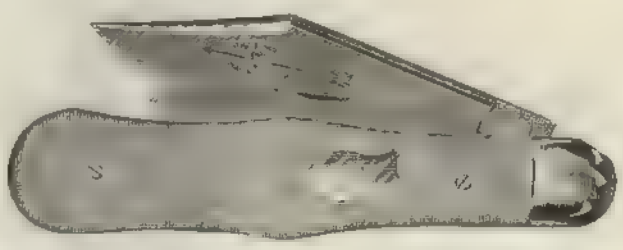
| | |
|---|---|
| No. B936 -Ebony handle | $11.00 |
| No. B937—Imitation stag handle | 11.00 |



No. B567

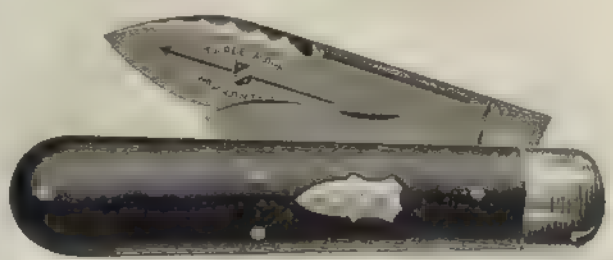
Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2½ lbs.

| | Doz |
|---|---|
| No. B566—Ebony handle | $ 9 50 |
| No. B567—Imitation stag handle | 10 00 |



Two blades, medium clip and pen, polished and etched; German silver bolster and shield; brass lined; weight per dozen 2¼ lbs.

| | Doz. |
|---|---|
| No. B383—White bone handle | $ 8.00 |



Two blades, medium spear and pen, polished and etched; German silver bolster and shield; brass lined; weight per dozen 2 lbs.

| | Doz. |
|---|---|
| No. B201—Ebony handle | $ 8 00 |

Packed, one-half dozen in box.

# WYETH SHIELD BRAND POCKET KNIVES

## FULLY WARRANTED

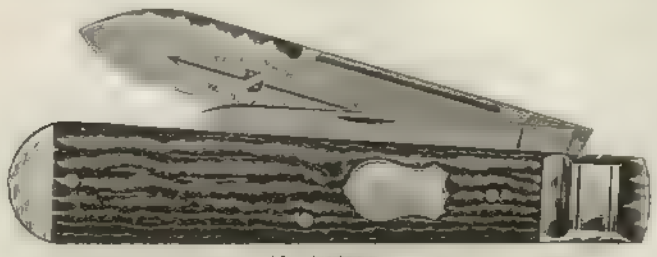
ILLUSTRATIONS FULL SIZE

All WYETH SHIELD BRAND pocket knives are forged from the very best English Wardlow steel, correctly hardened and tempered by the most advanced processes of modern cutlers, every blade honed and ready for use, absolutely guaranteed against defects in material or workmanship.

No. B1032G

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2½ lbs.

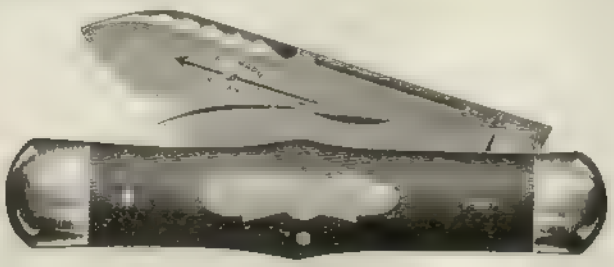
| | Doz. |
|---|---|
| No. B1032—Imitation stag handle | $11.50 |
| No. B1032G—Genuine stag handle | 14 00 |



No. B1602G

Two blades, medium spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2¾ lbs.

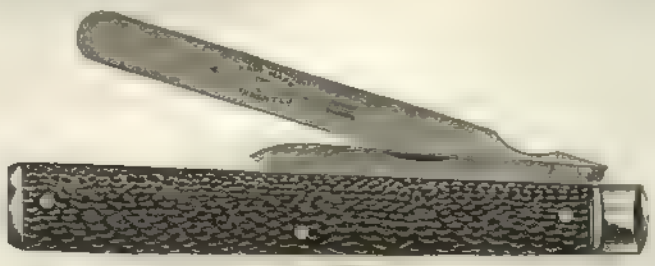
| | Doz. |
|---|---|
| No. B1602—Imitation stag handle | $12 00 |
| No. B1602G—Genuine stag handle | 14 00 |



No. B706

Two blades, large spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 3 lbs.

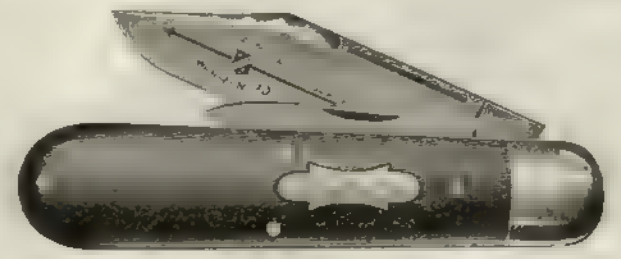
| | Doz |
|---|---|
| No. B706—Ebony handle | $10.00 |
| No. B707—Imitation stag handle | 11 00 |



No. B1522

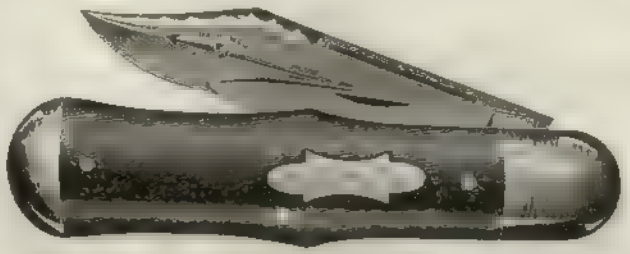
Two blades, physicians' spatula and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 1¾ lbs.

| | Doz. |
|---|---|
| No. B1521—Ebony handle | $13.00 |
| No. B1522—Imitation stag handle | 14.00 |
| No. B1524—Pearl handle | 30 00 |



Two blades, medium clip and pen, polished and etched; polished iron bolster and shield; brass lined; weight per dozen 2½ lbs.

| | Doz. |
|---|---|
| No. B196—Ebony handle | $ 8.00 |



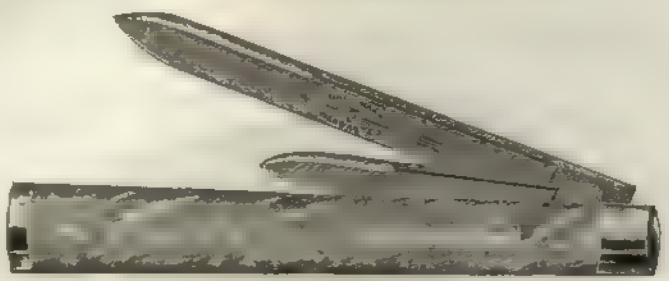
Two blades, large swedge clip and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2½ lbs.

| | Doz |
|---|---|
| No. B771—Ebony handle | $10.50 |

No. B630

Two blades, medium clip and pen, polished and etched; polished iron bolsters and shield; brass lined; weight per dozen 2¼ lbs.

| | Doz |
|---|---|
| No. B630—Cocobolo handle | $ 8.00 |
| No. B632—Imitation stag handle | 8.50 |



No B1514

Two blades, physicians' long spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2½ lbs.

| | Doz |
|---|---|
| No. B1511—Ebony handle | $12.00 |
| No. B1512—Imitation stag handle | 12.50 |
| No. B1513—Composition white handle | 12.50 |
| No. B1514—Pearl handle | 30.00 |

Packed, one-half dozen in box

# WYETH SHIELD BRAND POCKET KNIVES

## FULLY WARRANTED

ILLUSTRATIONS FULL SIZE

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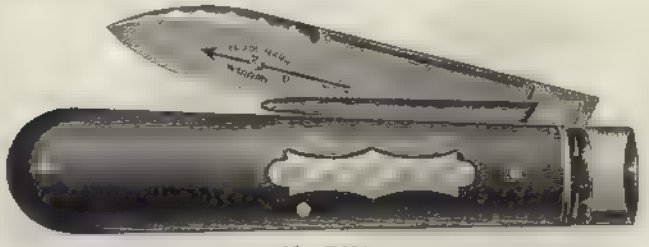
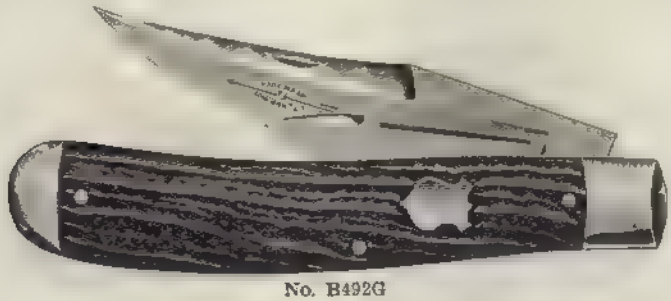


No. B281

Two blades, medium spear and belt punch, polished and etched; polished iron bolster and shield; brass lined; weight per dozen 2¼ lbs

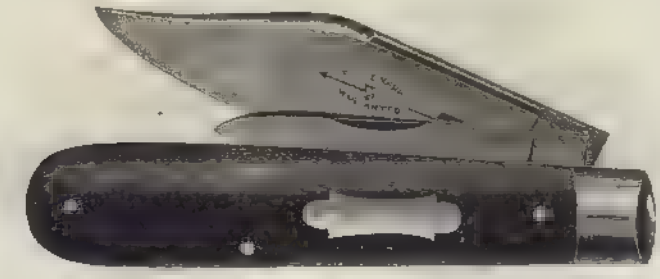
| | Doz. |
|---|---|
| No. B281—Ebony handle | $ 9.00 |
| No. B282—Imitation stag handle | 9.50 |



No. B492G

Two blades, large swedge clip and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2¼ lbs.

| | Doz |
|---|---|
| No. B492—Imitation stag handle | $11.00 |
| No. B492G—Genuine stag handle | 14.00 |



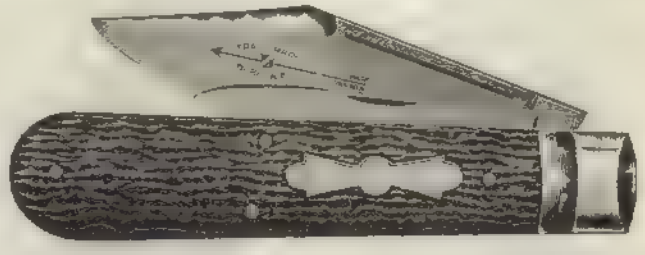
No. B148

Two blades, large clip and pen, polished and etched; polished iron bolster and shield; brass lined; weight per dozen 2½ lbs.

| | Doz. |
|---|---|
| No. B148—Ebony handle | $ 8.00 |
| No. B147—Imitation stag handle | 9.50 |

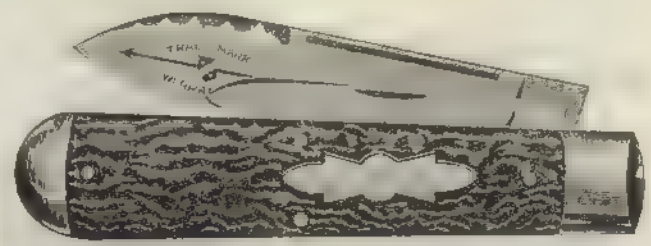
Two blades, large pruning and medium spey, polished and etched; polished iron bolsters and shield; iron lined; weight per dozen 2 lbs.

| | Doz. |
|---|---|
| No. B12—Imitation stag handle | $12.00 |



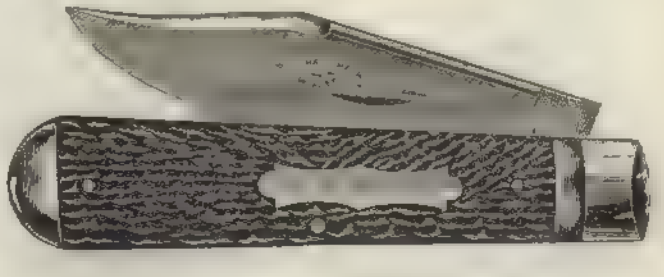
Two blades, large clip and pen, polished and etched; polished iron bolster and shield; brass lined; weight per dozen 2¾ lbs.

| | Doz. |
|---|---|
| No. B287 Imitation stag handle | $ 8 50 |



Two blades, large spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 3 lbs.

| | Doz |
|---|---|
| No. B462G Genuine stag handle | $12.00 |



Two blades, large clip and pen, polished and etched; polished iron bolsters and shield; brass lined; weight per dozen 3 lbs.

| | Doz. |
|---|---|
| No. B457—Imitation stag handle | $ 9.00 |

Two blades, large spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2½ lbs.

| | Doz |
|---|---|
| No. B251B—Buffalo horn handle | $13.00 |

Packed, one-half dozen in box.

# WYETH SHIELD BRAND POCKET KNIVES

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ILLUSTRATIONS FULL SIZE

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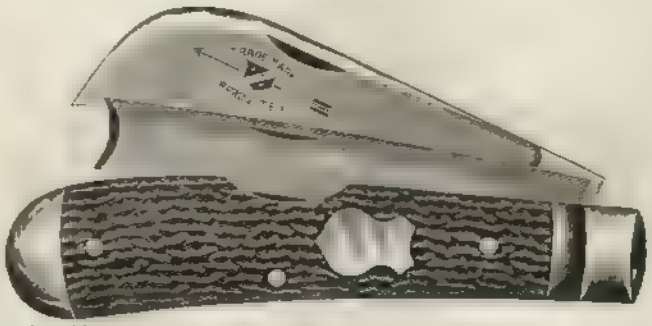


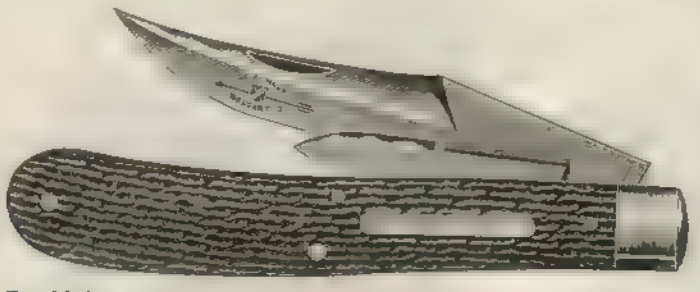
Pruning blade and weeder, polished and etched; polished iron bolsters and shield; brass lined; weight per dozen 3 lbs

| | Doz. |
|---|---|
| No. B422 –Imitation stag handle | $10.50 |

No. B451

Two blades, large spear and pen, polished and etched; polished iron bolsters and shield; brass lined; weight per dozen 2¾ lbs.

| | Doz. |
|---|---|
| No. B451—Ebony handle | $ 8.50 |
| No. B452—Imitation stag handle | 9.00 |



Two blades, medium swedge clip and pen, polished and etched; German silver bolster and shield; brass lined; weight per dozen 2½ lbs

| | Doz. |
|---|---|
| No. B257—Imitation stag handle | $ 11.00 |

No. B165

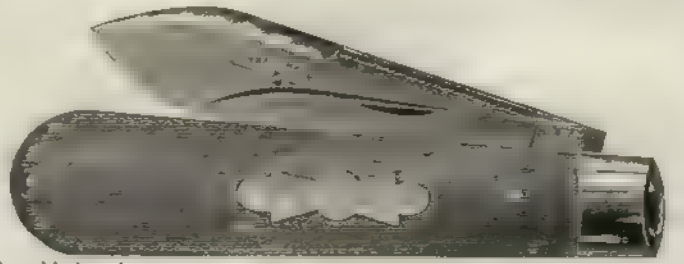
Two blades, large spear and pen, polished and etched; polished iron bolster; German silver shield; iron lined; weight per dozen 3 lbs

| | Doz |
|---|---|
| No. B165—Cocobolo handle | $ 9.00 |
| No. B166—Ebony handle | 9.00 |

No. B942

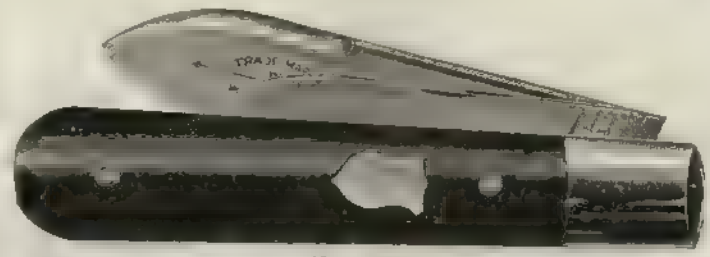
Two blades, large spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 2¾ lbs.

| | Doz |
|---|---|
| No. B941—Ebony handle | $11 50 |
| No. B942—Imitation stag handle | 12 00 |



Two blades, large spear and pen, polished and etched; polished iron bolster and shield; brass lined; weight per dozen 2¾ lbs.

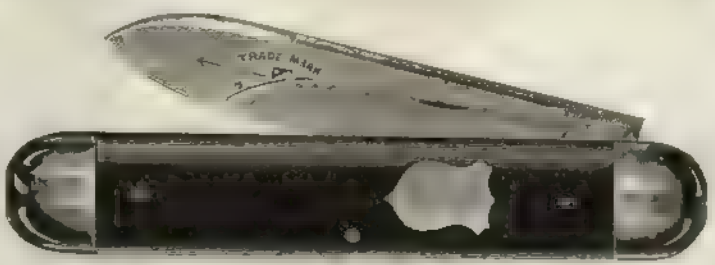
| | Doz |
|---|---|
| No. B140—Cocobolo handle | $ 8 00 |



No. B161

Two blades, large spear and pen, polished and etched; German silver bolster and shield; brass lined; screwed handle; weight per dozen 3½ lbs.

| | Doz. |
|---|---|
| No. B155—Cocobolo handle | $ 9.00 |
| No. B161—Ebony handle | 10.50 |
| No. B162—Imitation stag handle | 10.50 |



No. B596

Two blades, large spear and pen, polished and etched; German silver bolsters and shield; brass lined; weight per dozen 3½ lbs.

| | Doz. |
|---|---|
| No. B596 –Ebony handle | $12 00 |
| No. B597—Imitation stag handle | 12.50 |

Packed, one-half dozen in box.

# MISCELLANEOUS BRAND POCKET KNIVES

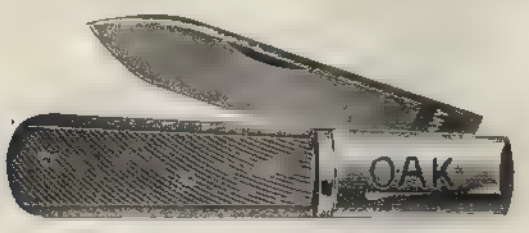
ILLUSTRATIONS FULL SIZE

One blade, spear, polished; iron lined; weight per dozen 8 oz.

Doz.
No. K012—Black japanned tin handle..... $ 0.70

One blade, spear, polished; easy opener; weight per dozen 10 oz.

Doz.
No. K018—Nickeled steel handle..... .$ 1.70




One blade, spear, polished; polished iron bolster; iron lined; weight per dozen 1¼ lbs.

Doz.
No. K37—Bone handle .....$ 1.70

One blade, sheep foot, polished; polished iron bolster; iron lined, 12-inch chain; weight per dozen 1¼ lbs.

Doz.
No. K039—Iron handle .....$ 1.50

One blade, spear, polished; polished iron bolster; iron lined; weight per dozen 1 lb.

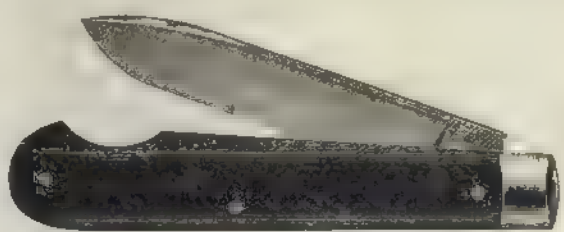
Doz.
No. K35—White bone handle .. ... . . . ..... ...$ 2.20

One blade, spear, polished; iron lined, weight per dozen 8 oz.

Doz
No. K010—Tinned handle . $ 0.70

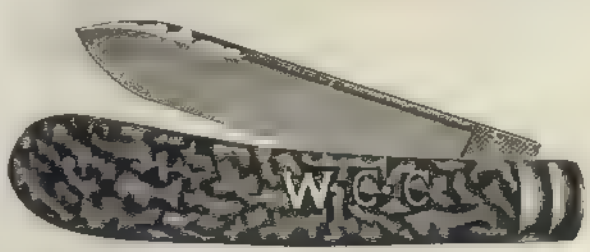
One blade, sheep foot, polished; polished iron bolster; iron lined, weight per dozen 14 oz.

Doz.
No. K034—Iron handle .. .. ... $ 1.70



One blade, spear, polished; easy opener; polished iron bolster; iron lined; weight per dozen 14 oz.

Doz
No. K36—Ebony handle . ....$ 1 80




One blade, spear, polished; polished iron bolster; iron lined; weight per dozen 1¼ lbs.

Doz
No. K70—Iron handle .. . .. $ 1.70

One blade, spey, polished; polished iron bolster; iron lined; weight per dozen 1¼ lbs.

Doz.
No. K72—Iron handle .....$ 1.70

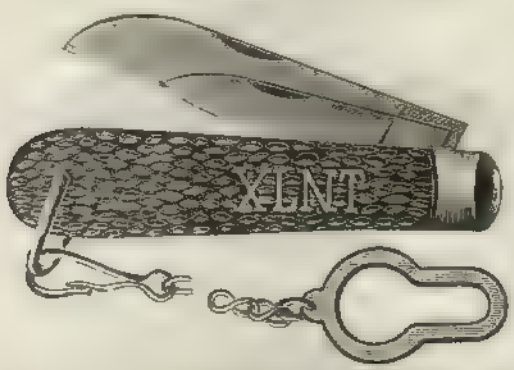
Packed, one-half dozen in box.

# MISCELLANEOUS BRAND POCKET KNIVES

ILLUSTRATIONS FULL SIZE

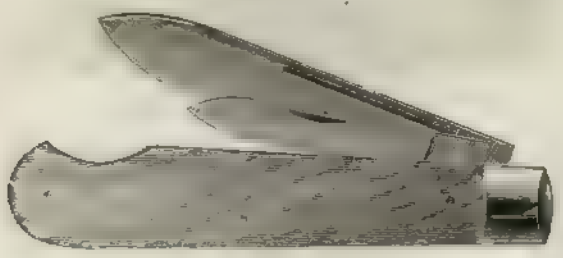
Two blades, large spear and pen, polished; polished iron bolster; iron lined; weight per dozen 1½ lbs

| | Doz. |
|---|---|
| No. K1342—Imitation stag handle | $ 3.50 |




Two blades, sheep foot and pen, polished; polished iron bolster; iron lined; 12-inch chain; weight per dozen 1¼ lbs

| | Doz |
|---|---|
| No. K040—Iron handle | $ 1 80 |



No. K90

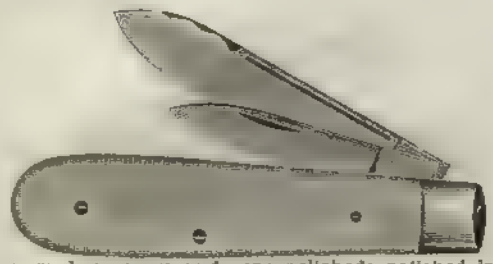
Two blades, spear and pen, polished; polished iron bolster; iron lined; easy opener; weight per dozen 1½ lbs.

| | Doz. |
|---|---|
| No. K90—Cocobolo handle | $ 2 20 |
| No. K91—Ebony handle | 2.20 |
| No. K93—White bone handle | 2.20 |

No. K3270

Two blades, spear and pen, polished; polished iron bolster; German silver shield; iron lined; easy opener; 12-inch chain; weight per dozen 2¼ lbs.

| | Doz. |
|---|---|
| No. K3270—Cocobolo handle | $ 3.00 |
| No. K3271—Ebony handle | 3.00 |
| No. K1045—Ebony handle; brass lined | 4.20 |

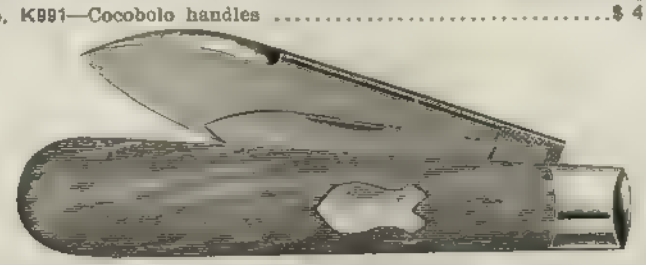


Two blades, medium spear and pen; polished; polished iron bolster; iron lined; weight per dozen 1¾ lbs.

| | Doz |
|---|---|
| No. K041—White bone handle | $ 2.00 |

Two blades, medium clip and pen, polished; German silver bolster and shield; brass lined; weight per dozen 1¾ lbs.

| | Doz |
|---|---|
| No. K991—Cocobolo handles | $ 4.20 |



Two blades, medium clip and pen, polished; German silver bolster and shield; brass lined; weight per dozen 1¾ lbs.

| | Doz. |
|---|---|
| No. K990—Cocobolo handle | 4 20 |

No. K984

Two blades, large spear and pen, polished; polished iron bolster; German silver shield; brass lined; weight per dozen 2 lbs.

| | Doz |
|---|---|
| No. K984—White bone handle | $ 4 20 |
| No. K985—Ebony handle | 4 20 |
| No. K986—Imitation stag handle | 4 20 |

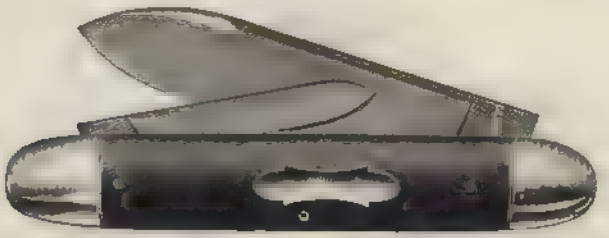
Two blades, large spear and punch, polished; polished iron bolster; iron lined; weight per dozen 1½ lbs.

| | Doz. |
|---|---|
| No. K952—Imitation stag handle | $ 4.50 |

Packed, one-half dozen in box.

## MISCELLANEOUS BRAND POCKET KNIVES

ILLUSTRATIONS FULL SIZE



Two blades, large spear and pen, polished; polished iron bolsters, German silver shield, iron lined; weight per dozen 1⅞ lbs.

| | Doz. |
|---|---|
| No. K1011—White bone handle | $ 4 20 |
| No. K1012 Ebony handle | 4 20 |
| No. K1013 Imitation stag handle | 4 20 |

Three blades, clip, sheep foot and pen, full Crocussed; German silver bolsters and shield; brass lined; weight per dozen 1¾ lbs.

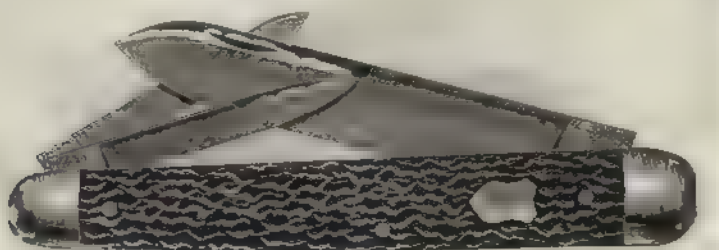
| | Doz. |
|---|---|
| No. K113—Horn handle | $ 8 00 |

Three blades, medium spear and two small pens, full Crocussed; German silver bolsters and shield; brass lined; weight per dozen 1¼ lbs

| | Doz. |
|---|---|
| No. K983—Pearl handle | $13 00 |

Three blades, medium spear and two small pens, full Crocussed; German silver bolsters and shield; brass lined; weight per dozen 1¼ lbs.

| | Doz. |
|---|---|
| No. K982—Pearl handle | $13.00 |



Three blades, large spear and two pens, full Crocussed; German silver bolsters and shield; brass lined; weight per dozen 3¼ lbs.

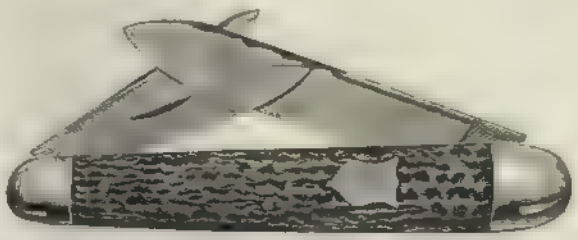
| | Doz. |
|---|---|
| No. K122—Imitation stag handle | $ 8.00 |

Two blades, medium spear and ink eraser; full Crocussed brass lined, weight per dozen 1¼ lbs

| | Doz |
|---|---|
| No. K423—Composition white handle | $ 6 00 |

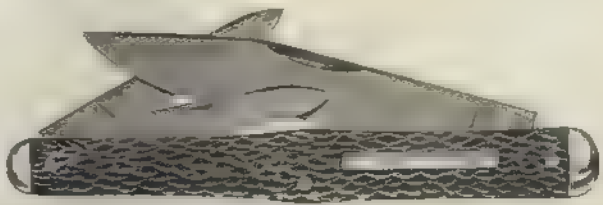
Three blades, small spear and two pens, full Crocussed; German silver bolsters and shield; brass lined, weight per dozen 14 oz.

| | Doz. |
|---|---|
| No. K133SP—Smoked pearl handle | $ 8.00 |



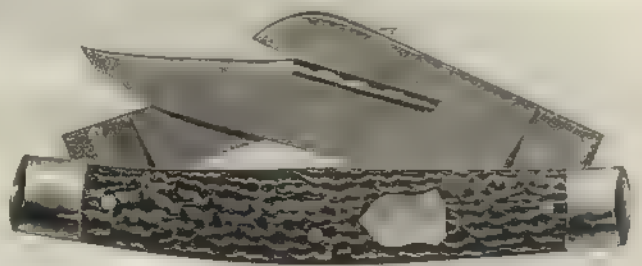
Three blades, medium spear and two pens, full Crocussed; German silver bolsters and shield; brass lined; weight per dozen 1½ lbs.

| | Doz |
|---|---|
| No. K127—Imitation stag handle | $ 8 00 |



Three blades, large clip, two small pens, full Crocussed, German silver tips and shield; brass lined; weight per dozen 1⅛ lbs.

| | Doz |
|---|---|
| No. K1043—Shadow pearl handle | $ 8 00 |
| No. K1044—Imitation stag handle | 8 00 |



Three blade cattle knife, large clip, sheep foot and spey, full Crocussed; German silver bolsters and shield; brass lined; weight per dozen 3¼ lbs.

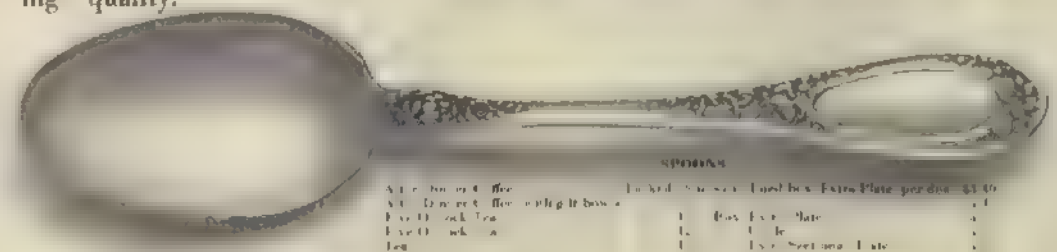
| | Doz. |
|---|---|
| No. K1092—Imitation stag handle | $ 8.00 |

Packed, one-half dozen in box.

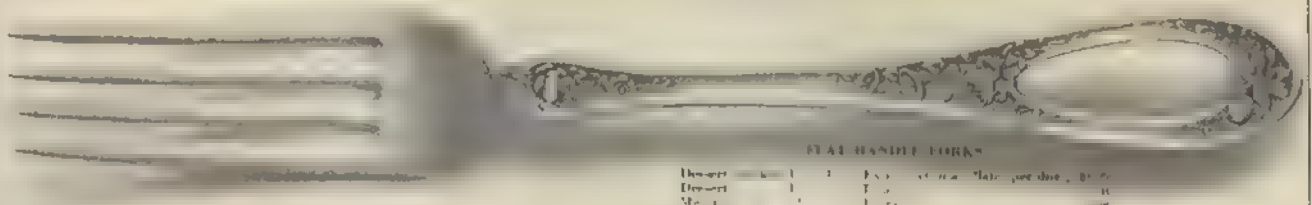
1835 R. WALLACE
Silver Plate that *resists* wear

# BLOSSOM PATTERN

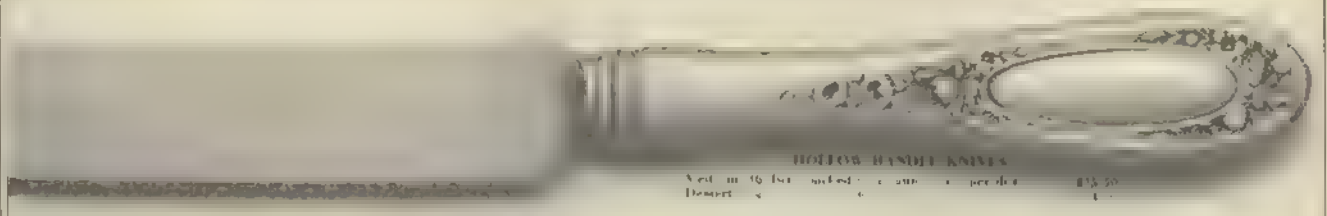
**The Blossom pattern is a pronounced success — splendid alike in design and execution. The delicate flowers on a gray background, surrounding the brilliantly burnished shield, mark a distinct and welcome departure in the treatment of plated flatware. Through its distinctiveness this pattern presents wonderful selling opportunities, as it lends itself readily to display and is backed by the Wallace "wear-resisting" quality.**



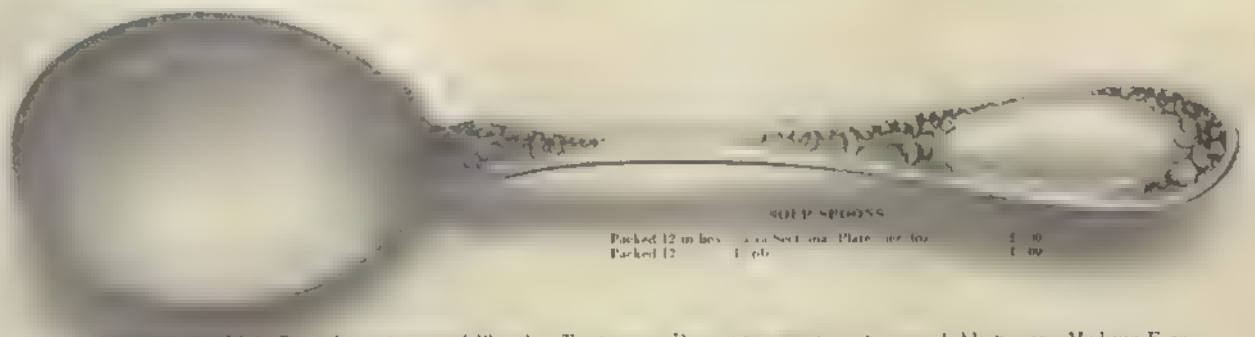
SPOONS



FLAT HANDLE FORKS



HOLLOW HANDLE KNIVES



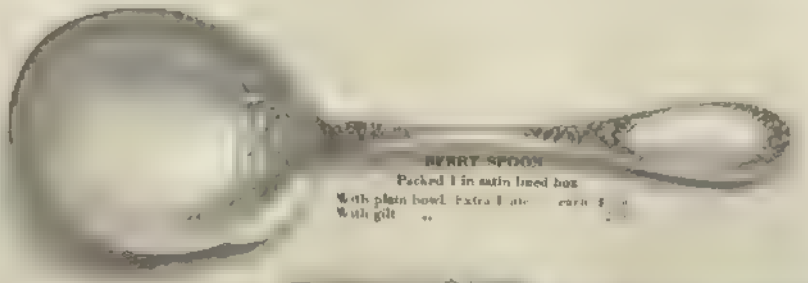
SOUP SPOONS

ALL 1835 R. WALLACE goods are Sectional Plated at Tea Spoons, Dessert Spoons, Soup Spoons, Table Spoons, Medium Forks and Dessert Forks, on parts most exposed to wear, which increases the wear-resistance threefold.

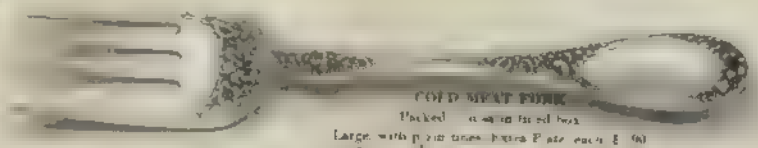
Illustrations Full Size

# 1835 R. WALLACE
## Silver Plate that *resists* wear

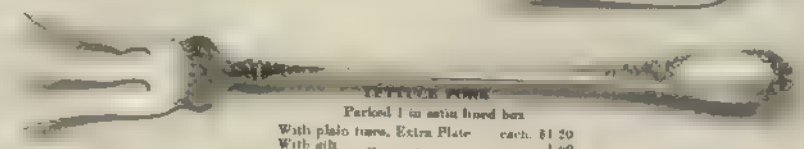
## BLOSSOM PATTERN



BERRY SPOON
Packed 1 in satin lined box
With plain bowl. Extra Plate each $ .
With gilt "

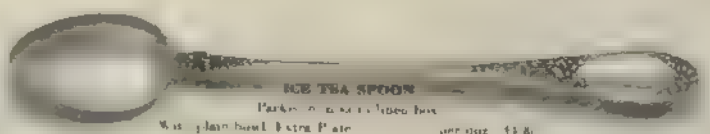


COLD MEAT FORK
Packed in satin lined box
Large, with plain tines. Extra Plate each $ .60
Large, gilt " 1.20
Small, plain " .80
Small, gilt " 1.60



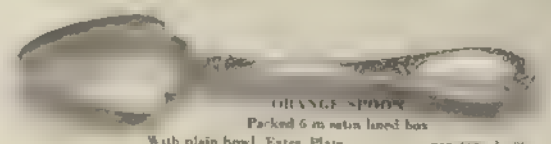
LETTUCE FORK
Packed 1 in satin lined box
With plain tines. Extra Plate each $1.20
With gilt " " 1.60

GRAVY LADLE
Packed 1 in satin lined box
Extra Plate $ .90
Extra Plate, gilt bowl 1.20

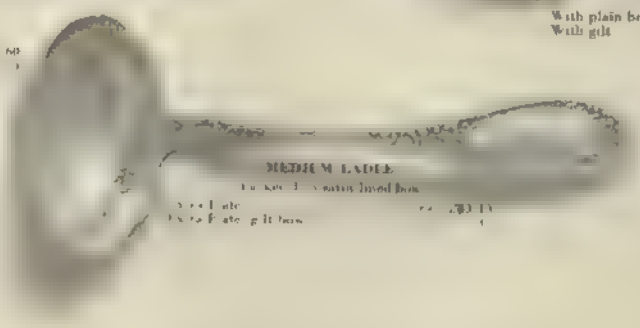


ICE TEA SPOON
Packed in satin lined box
With plain bowl. Extra Plate per doz. $3.60

SUGAR SHELL
Packed 12 in box
With plain bowl. Extra Plate each $ .60
With gilt " " "
Packed 1 in satin lined box, extra



ORANGE SPOON
Packed 6 in satin lined box
With plain bowl. Extra Plate per doz. $ .00
With gilt " " "



MEDIUM LADLE
Packed 1 in satin lined box
Extra Plate $3.00
Extra Plate, gilt bowl 4.00

Illustrations One-Half Scale

BLOSSOM CHILD'S SET (3 Pieces)
Packed each set in satin lined box
Extra Plate per set, $2.00

BLOSSOM LARGE CARVING SET
3 pieces
Packed each set in satin lined box . per set, $10.00

BLOSSOM STEAK SET
Hollow Handle
Packed each set in satin lined box
$4.00 per set

One-Fifth Scale

SPOONS, FORKS AND OTHER PIECES STAMPED **1847 ROGERS BROS.** ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

*"Silver Plate that Wears"*

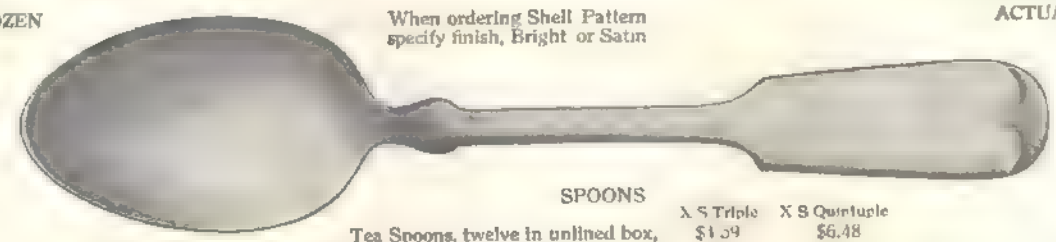
# TIPPED AND SHELL PATTERNS

PRICES PER DOZEN

When ordering Shell Pattern specify finish, Bright or Satin

ILLUSTRATIONS ACTUAL SIZE

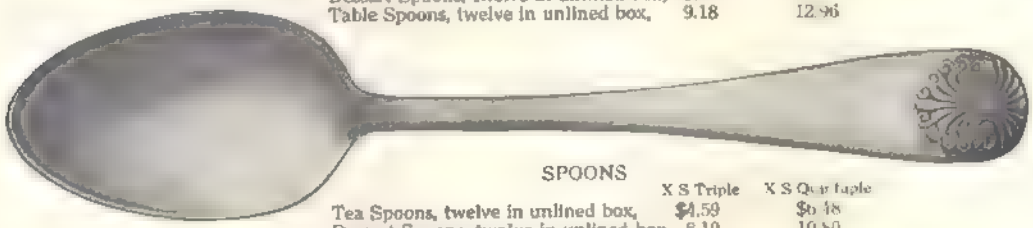
TIPPED TEA SPOON



SPOONS

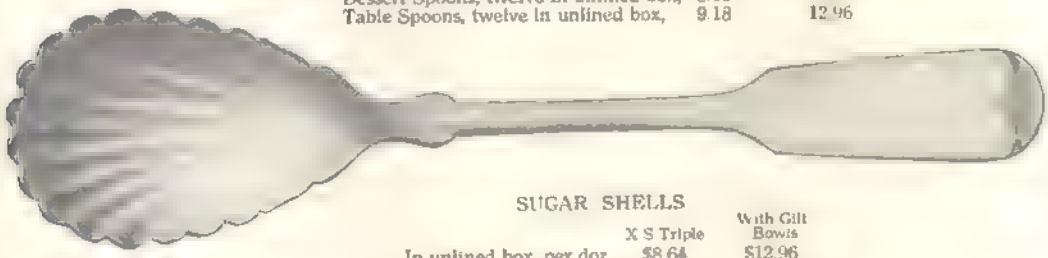
| | X S Triple | X S Quintuple |
|---|---|---|
| Tea Spoons, twelve in unlined box, | $4.59 | $6.48 |
| Dessert Spoons, twelve in unlined box, | 8.10 | 10.80 |
| Table Spoons, twelve in unlined box, | 9.18 | 12.96 |

SHELL TEA SPOON



SPOONS

| | X S Triple | X S Quadruple |
|---|---|---|
| Tea Spoons, twelve in unlined box, | $4.59 | $6.48 |
| Dessert Spoons, twelve in unlined box, | 8.10 | 10.80 |
| Table Spoons, twelve in unlined box, | 9.18 | 12.96 |



SUGAR SHELLS

| | X S Triple | With Gilt Bowls |
|---|---|---|
| In unlined box, per doz., | $8.64 | $12.96 |
| In lined box, each, | .86 | 1.22 |

BUTTER KNIVES, TWIST HANDLE

| | X S Triple | With Gilt Blades |
|---|---|---|
| In unlined box, per doz., | $10.80 | $15.12 |
| In lined box, each, | 1.04 | 1.40 |

STEEL CUTLERY, MEDIUM KNIVES, WARRANTED 16 DWT.

No. 12 Round End Medium Knives, six in racked box, per doz., $7.00
No. 12 Round End Dessert Knives, six in racked box, " " 6.80

No. 12 Round End Medium Forks, six in racked box, per doz., $7.00
No. 12 Round End Dessert Forks, six in racked box, " " 6.80

STEEL CUTLERY, MEDIUM KNIVES, WARRANTED 16 DWT.

No. 12 Shell Medium Knives, six in racked box, per doz., $7.20
No. 12 Shell Dessert Knives, six in racked box, " " 7.00

No. 12 Shell Medium Forks, six in racked box per doz., $7.20
No. 12 Shell Dessert Forks, six in racked box, " " 7.00

SPOONS, FORKS AND OTHER PIECES STAMPED **1847 ROGERS BROS.** ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

Illustrations Actual Size

No. 12 Round End Medium Knife, Plain or Satin, per doz., $7.00
No. 12 Round End Dessert Knife, Plain or Satin, „ „ 6.80

No. 12 Round End Medium Fork, per doz., $7.00
No. 12 Round End Dessert Fork, „ „ 6.80

No. 12 Shell Medium Knife, Plain or Satin, per doz. $7.20
No. 12 Shell Dessert Knife, Plain or Satin, „ „ 7.00

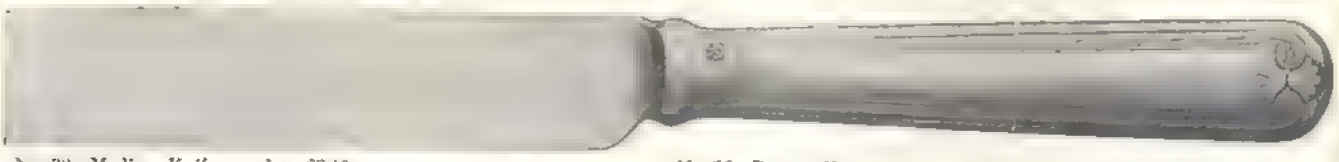
No. 12 Shell Medium Fork, per doz., $7.20
No. 12 Shell Dessert Fork, „ „ 7.00

No. 53 Medium Knife, per doz., $7.50
Cromwell Flat Handle Medium Fork, to match, per doz. $10.26

No. 53 Dessert Knife, per doz., $7.30
Cromwell Flat Handle Dessert Fork, to match, per doz. $9.18

No. 52 Medium Knife, per doz., $7.50
Old Colony Flat Handle Medium Fork, to match, per doz., $10.26

No. 52 Dessert Knife, per doz., $7.30
Old Colony Flat Handle Dessert Fork, to match, per doz. $9.18



No. 38 Medium Knife, per doz., $7.50
Priscilla Flat Handle Medium Fork, to match, per doz. $10.26

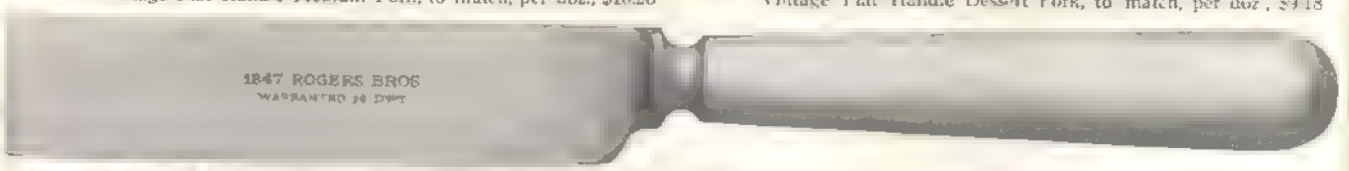
No. 38 Dessert Knife, per doz., $7.20
Priscilla Flat Handle Dessert Fork, to match, per doz., $9.18

No. 46 Medium Knife, per doz., $7.50
Charter Oak Flat Handle Medium Fork, to match, per doz., $10.26

No. 46 Dessert Knife, per doz., $7.30
Charter Oak Flat Handle Dessert Fork, to match, per doz., $9.18

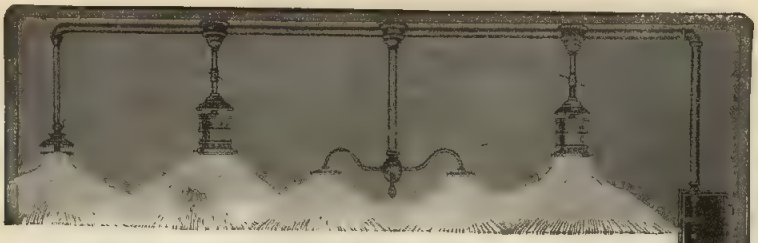
No. 15 Medium Knife, per doz., $7.50
Vintage Flat Handle Medium Fork, to match, per doz., $10.26

No. 15 Dessert Knife, per doz., $7.30
Vintage Flat Handle Dessert Fork, to match, per doz., $9.18




No. 49 Medium Knife, hollow handle, S. and S. blade, per doz., $8.40
No. 49 Dessert Knife, hollow handle, S. and S. blade „ „ 8.20

No. 49 Medium Fork, hollow handle, N. S. tines, per doz., $8.40
No. 49 Dessert Fork, hollow handle, N. S. tines, „ „ 8.20



No. 53, 500 C. P. Price, $10.85 | No. 57, 100 C. P. Price, $20.00 | No. 101, Chandelier Price, $20.00 | No. 58, 500 C. P. Price, $18.35

# The Acme Airlight Gas System

## Installation Permitted by the National Board of Fire Underwriters without extra charge for insurance.

The Acme Airlight Gas System is the last word in gasoline lighting. With it the generating is all done at one point and the gas piped to the lamps, where it is lighted with a match the same as city gas. No separate generating of lamps, no gasoline in the building. Each lamp has its own cut off valve with which the light can be turned on high or low at will. The air used in the gas can be taken from outside the building, thus this system does not vitiate the air in the room where the lights are installed, as is the case with ordinary gasoline lamps.

There is never any gasoline in the pipes, hence this system is absolutely safe.

The light produced is pure white and incandescent, better than the ordinary gasoline lamp, because this system has better combustion than any other, due to the superior design and construction of the Acme Generator.

The Acme System is without question the best, safest, most economical and practicable system for lighting churches, halls and stores. All Acme Airlight Systems are guaranteed for five years. Shipped complete, ready to install; pipe screws together the same as gas pipe. Everything made ready at our factory, especially for the place to be lighted and an entire system can be installed in the average place in a few hours. No tools and no experience necessary.

Order a system today and be your own gas trust.

One five hundred candle-power mantle on this system will operate from 35 to 60 hours on one gallon of gasoline or at about one-tenth the cost of the same amount of light from gas, electricity or kerosene. The generator can be regulated to accommodate any number of mantles required.

Estimates on cost of systems of various sizes. Prices are list and are subject to substantial discounts to agents and dealers.

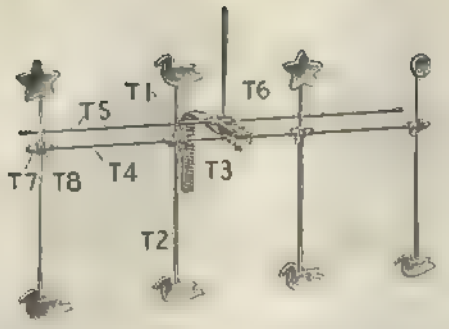
Each system quoted consists of a tank, pump and generator of suitable size and 10 feet of pipe and connection for each one-mantle lamp; 15 feet for each two-mantle lamp, and 25 feet for each four-mantle lamp.

### ESTIMATES.

| Number of Lamps. | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 57 1 Mantle | $136.00 | $158.50 | $183.35 | $206.50 | $236.35 | $261.35 | $283.85 | $306.35 | $329.50 | $352.00 | $381.85 | $404.35 | $427.50 |
| No. 57 2 Mantles | 145.15 | 179.20 | 209.00 | 236.35 | 269.65 | 296.35 | 323.65 | 350.35 | 377.65 | 404.35 | 431.65 | 458.35 | 485.65 |
| No. 58 1 Mantle | 136.00 | 158.50 | 183.35 | 206.50 | 236.35 | 261.35 | 283.85 | 306.35 | 329.50 | 352.00 | 381.85 | 404.35 | 427.50 |
| No. 58 2 Mantles | 145.15 | 179.20 | 209.00 | 236.35 | 269.65 | 296.35 | 323.65 | 350.35 | 377.65 | 404.35 | 431.65 | 458.35 | 485.65 |
| No. 53 1 Mantle | 113.50 | 128.50 | 145.85 | 161.50 | 183.85 | 201.35 | 216.35 | 231.35 | 247.00 | 262.00 | 284.35 | 299.35 | 315.00 |
| No. 53 2 Mantles | 122.65 | 149.20 | 171.50 | 191.35 | 217.15 | 236.35 | 256.15 | 275.35 | 295.15 | 314.35 | 334.15 | 353.35 | 373.15 |
| No. 60 Lamp | 110.00 | 124.20 | 140.00 | 154.50 | 175.65 | 192.00 | 205.85 | 219.65 | 234.15 | 248.00 | 269.15 | 283.00 | 297.50 |
| No. 61 Chandelier | 143.50 | 179.20 | 209.00 | 236.35 | 269.65 | 296.35 | 323.65 | 350.35 | 377.65 | 404.35 | 431.65 | 458.85 | 485.65 |

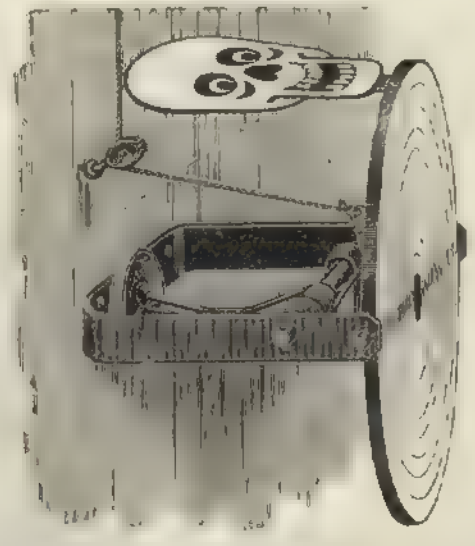
Send us the dimensions of your place and let us ship you an independent gas plant which will light your place as bright as day and attract attention and trade to your store.

## TARGETS




Each

No. ST7—Images ⅛-inch thick; birds 4½ inches long; stars 3½ inches long; disc 2 inches in diameter; made of malleable iron; 1x7/16-inch steel connecting bar; T1 and T2 are double riveted to the images; 36x½-inch supporting rod T4 and the 36x⅜-inch lifting rod T5, are both cold drawn steel; bracket T3 is made of 1½x⅛-inch wrought iron; 17 inches from the wall or support that bracket may be attached to, four birds, three stars and one disc comprise the images of the target; arrangement of images may be changed to suit purchaser; weight 16 lbs. ..... $ 5.50



Each

No. ST6—12-inch round graduated steel face ¼-inch thick; ¼, ½, ¾, and 1-inch Bull's Eyes; adapted to air guns and rifles using 22-caliber cartridges; has two pulleys, three screws for fastening target to wall and a resetting cord; when the bull's eye is hit, a bell rings, and the steel face turns down to a horizontal position, substantially out of sight, bringing into view a large image, which may be removed, and false faces, advertisements, comic heads and faces, pictures, animals, birds, etc., substituted from time to time; weight 12 lbs. ..... $ 5.50

## DECOYS

### CEDAR DUCKS

Doz

No. SD1—Fine quality, glass eyes; mallard, red head, blue wing teal, canvas back and sprig tail, assorted, male and female, average weight per dozen about 35 lbs. ..... $ 9 50

No. SD2—Good quality; tack eyes; mallard, red head, blue wing teal, green wing teal, canvas back and sprig tail, assorted, male and female; average weight per dozen about 35 lbs. ..... 8 50

No. SD3—Regular quality; painted eye; mallard, red head, blue wing teal, canvas back and sprig tail; assorted, male and female, two-thirds male; average weight per dozen about 35 lbs. ..... 7 50

No. SD4—Regular quality; mallard size; all dull black color; otherwise same as No. SD3 ..... 9.50

### ACME FOLDING CANVAS DUCKS

Doz

No. SD20—Mallard only; one dozen assorted in case; one-half male and one-half female, not affected by stray shot; body can be inflated or deflated instantly by turning a lever; metal parts all heavily galvanized; most lifelike reproduction of a duck on the market, lithographed in indelible colors on best quality of canvas; with white pine float, being collapsible they are light and easy to carry; weight per dozen 13 lbs. ..... $11 00

Packed, one dozen in case

## GUN AND RIFLE CASES

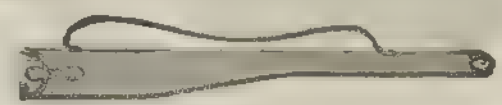
Doz.

No. S110G—10-ounce duck; flannel lined and leather bound; for single and double barrel or repeating and automatic shot guns; 26, 28, 30 and 32-inch barrel; weight per dozen 3¾ lbs. ..... $ 6 50

No. S110GR—For repeating shot guns; 26, 28, 30 and 32-inch barrel; otherwise same as No. S110G... 6 50

No. S111G—10-ounce duck; flannel lined and leather bound; for all calibers and models of rifles; 18, 20, 22, 24, 26 and 28-inch barrel; weight per dozen 3¾ lbs..... 6.50

No. S112G—For Winchester and Remington automatic shot guns; 26 and 28-inch barrel; otherwise same as No. S112G.. 6 50



Doz.

No. S120G—10-ounce duck; flannel lined; leather bound; with leather sling; for single and double barrel or repeating and automatic shot guns; 26, 28, 30 and 32-inch barrel; weight per dozen 4 lbs. ..... $ 8 50

No. S120GR—For repeating shot guns, 26, 28, 30 and 32-inch barrel; otherwise same as No. S160G ..... 8 50

No. S121G—10-ounce duck; flannel lined, leather bound, with leather sling; for all calibers and models of rifles 22, 24, 26 to 28-inch barrel; weight per dozen 4 lbs..... 8 50

No. S122G—For Winchester and Remington automatic shot guns; 26 and 28-inch barrel; otherwise same as No. S120G. 8 50

# GENUINE AFRICAN CALABASH PIPES AND FINE CIGAR AND CIGARETTE HOLDERS

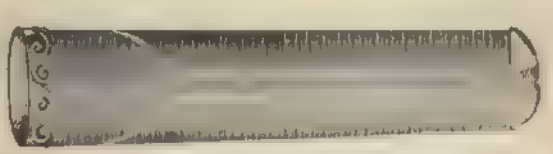
ALL CIGAR AND CIGARETTE HOLDERS IN LEATHER CASES—PRICES EACH

**Genuine South African Calabash**
Removable Meerschaum Bowl
**No. 6804 $6 00**
Best Quality Rubber Bit
**No. 6805 $11 00**
Same as above in Walrus Case
**No. 6806 $17 00**
Same as above in Morocco Case
With Solid Amber Mouthpiece

## CIGARETTE AND CIGAR HOLDERS

**No. 6810 Cigarette Holder $2 75**
Made of Ivory
Fine Selected Amber 2½ inches long

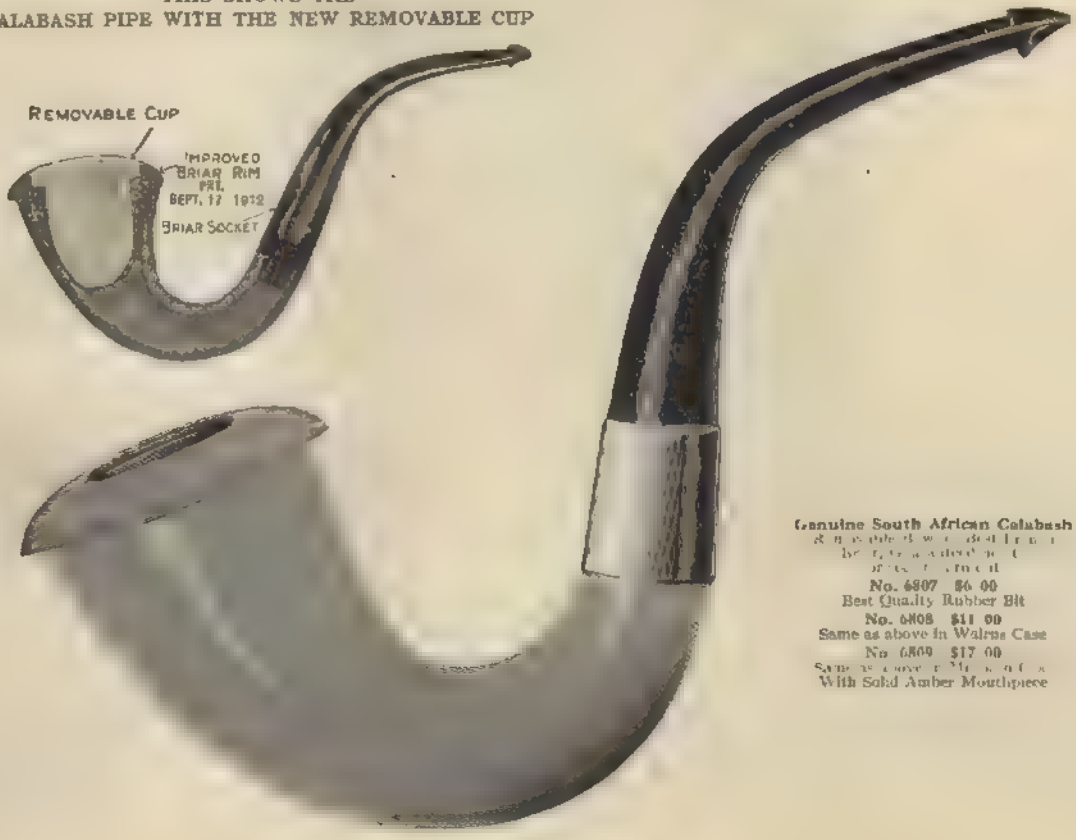
**No. 6811 Cigar Holder $3 75**
Made of One Solid Piece Finest Amber
Extra Large Openings 2½ inches long



**No. 6813 Cigar Holder $5 00**
Made of one solid piece of finest Amber; extra large openings; plain gold-filled band; perfectly round; 3 inches long

**No. 6812 Cigar Holder $4 25**
Genuine Meerschaum
With Handsomely Chased Gold Filled Band
Amber Mouthpiece 3 inches long

THIS SHOWS THE
CALABASH PIPE WITH THE NEW REMOVABLE CUP



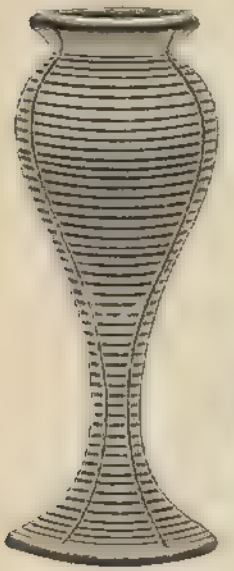

**Genuine South African Calabash**
[illegible]
**No. 6807 $6 00**
Best Quality Rubber Bit
**No. 6808 $11 00**
Same as above in Walrus Case
**No. 6809 $17 00**
[illegible]
With Solid Amber Mouthpiece

# STERLING SILVER DEPOSIT WARE

NEW AND DESIRABLE DESIGNS

Tray One-fourth Actual Size

Balance One-half Actual Size

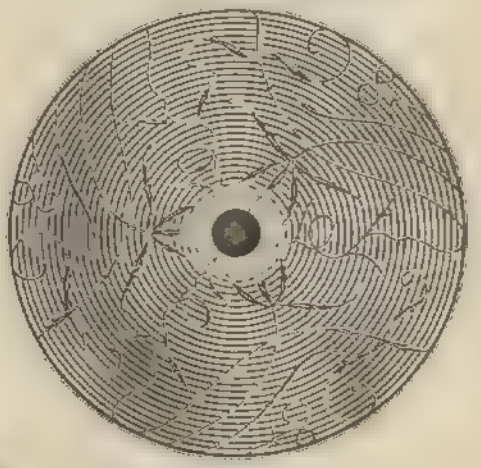


No. 6813 Vase Each $1 50
Half Actual Size

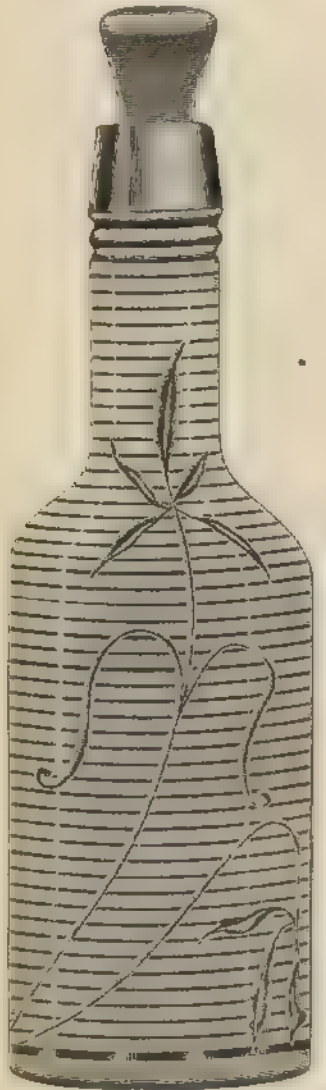
No. 6814 Sugar and Cream Set $3 50
Half Actual Size

No. 6815 Tumbler Set of Six $13 50
Half Actual Size

No. 6816
Whiskey Glass Set of Six $9 00
Half Actual Size



No. 6820 Sandwich Plate Each $13 00
Half Actual Size



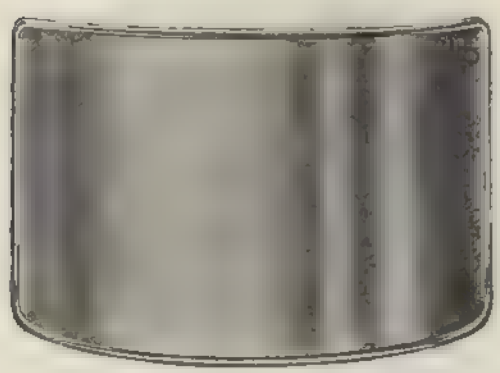
No. 6817 Liquor Bottle Each $7 50
Half Actual Size

No. 6818 Pitcher Each $11 00
Half Actual Size

No. 6819 Vase Each $6 00
Half Actual Size

# PERCOLATING MACHINE ACCESSORIES

## WIND SHIELDS



Nickel plated on copper; satin finish inside; rolled edge.

| | Each |
|---|---|
| No. 100S Size 15½x6½ inches, weight 1 lb ... .. | $ 3.00 |

Packed, one in package.

## ALCOHOL FLAGONS

Nickel plated on copper; with pump to force alcohol out; cap attached to spout by chain.

| | Each |
|---|---|
| No. 100F Capacity ½ pint; height of body 3½ inches; width 5 inches; spout 5 inches long; weight 14 ounces | $ 4.00 |

Packed, one in box.

## SUGAR BOWLS

## CREAM PITCHERS

Nickel plated on copper; beautifully polished; satin finish inside, coated with pure tin.

| | Each |
|---|---|
| No. 100B Height 2¾ inches; width 6 inches; weight 8 ounces. | $ 2.50 |

Packed, one in box.

| | Each |
|---|---|
| No. 100P Height 3 inches; width 4½ inches; weight 7 ounces. | $ 2 50 |

Packed, one in box

## PERCOLATOR TOPS

Glass; will fit any Universal percolator or percolating machine.

| | Each |
|---|---|
| No. 5—Diameter 2⅛ inches; height 2 inches; weight 2¼ oz. | $ 0 09 |

Packed, three dozen in box.

## PERCOLATOR HANDLES

Nos 66 and 69 Nos 74, 76 and 79

Non-heating ebonwood; polished; ready to attach; the numbers listed below will fit the corresponding numbers of percolators; No. 69 will also fit No. 614 and No 79 will fit No. 714; height given below is from center to center of screw holes.

| Nos. | 66 | 69 | 74 | 76 | 79 |
|---|---|---|---|---|---|
| Height, inches | 3⅛ | 3⅛ | 2¾ | 2⅜ | 3⅜ |
| Weight, ounces | 1 | 1⅛ | 1 | 1½ | 1¼ |
| Each | $0 21 | .21 | .21 | .21 | .21 |

Loose.

## KOHOLIA

A good grade of alcohol; for use in chafing dishes, percolators, etc.; put up in bottles

| Nos. | 200 | 300 |
|---|---|---|
| Size, pints | ½ | 1 |
| Weight per dozen, lbs. | 15 | 25 |
| Dozen | $3.50 | 7.50 |

Packed, No. 200, two dozen; No. 300, one dozen bottles in box.

# LAMP STOVES

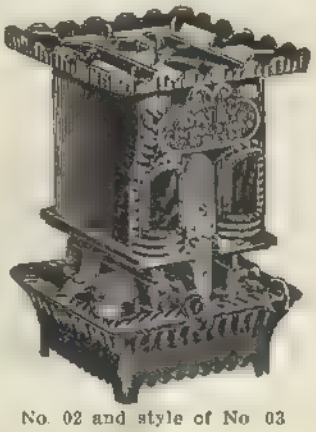
No. 01

### DAISY

Cast iron fount and top grates, black japanned; hinged top; brass burners; for 4-inch wicks

| | Doz |
|---|---|
| No. 01—One burner; height 8½ inches; top 5¾x3½ inches; one mica window; weight per dozen 40 lbs | $ 9.30 |
| No. 02—Two burners; height 8½ inches; top 5½x6 inches, two mica windows; weight per dozen 68 lbs | 18 60 |
| No. 03—Three burners; height 8¾ inches; top 8½x6 inches, three mica windows; weight per dozen 100 lbs | 27.90 |

Packed, Nos. 01 and 02, one-half dozen, No 03, one-quarter dozen in case



No. 02 and style of No 03

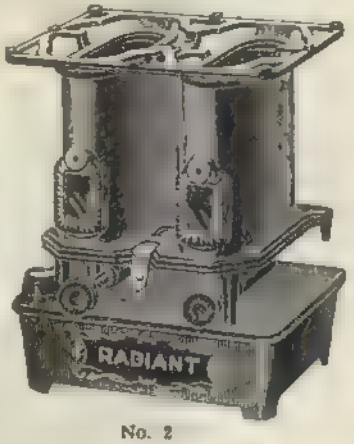
No 1

### RADIANT

Japanned cast iron fount; nickel plated top grates, hinged top; brass burners; for 4-inch wicks

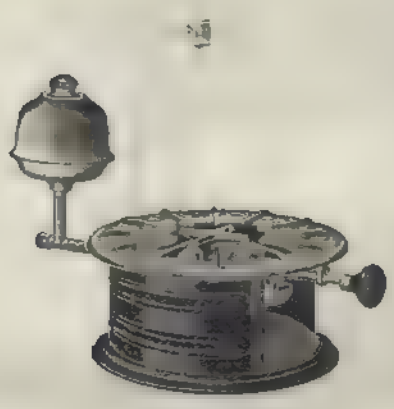
| | Doz |
|---|---|
| No. 1—One burner; height 9¼ inches top 4x6 inches; one mica window; weight per dozen 55 lbs | $14 00 |
| No. 2—Two burners; height 9⅝ inches, top 6¼x7½ inches, two mica windows; weight per dozen 98 lbs | 26 00 |

Packed, No. 1, one-half dozen No 2 one-quarter dozen in case.




No. 2

# ALCOHOL GAS STOVES

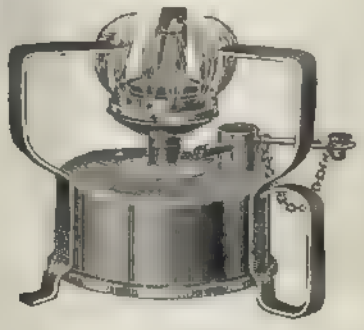


### UNIVERSAL

Reservoir and burner made of brass, dull nickel plated; black japanned sheet steel body; enclosed body will protect the flame from currents of air and makes it especially desirable in camps simple and easily regulated, odorless and absolutely safe

| | Each |
|---|---|
| No. 10—Height to burner 5 inches; diameter of burner 10¾ inches; entire height 10¾ inches; capacity of reservoir 1 pint; weight 11 lbs | $ 6 00 |

Packed, one in case.



### GLOGAU

Nickel plated brass reservoir; tin steel rests and tripod; with igniter and extinguisher; will burn wood, grain or denatured alcohol.

| | Doz |
|---|---|
| No. 15—Height 5 inches; 2¾-inch reservoir; 1¾-inch burner; weight per dozen 7½ lbs | $ 9.00 |

Packed, one in box

### UNIVERSAL

Tank and burner made of brass, dull nickel plated; japanned sheet steel frame; enclosed body prevents currents of air from affecting the flame; accommodates a two-hole oven and all regular cooking vessels.

| | Each |
|---|---|
| No. 20—Height to burner 6¼ inches, entire height 13¼ inches; length 22 inches; width 17 inches; capacity of tank 3 quarts; weight 30 lbs | $12.00 |

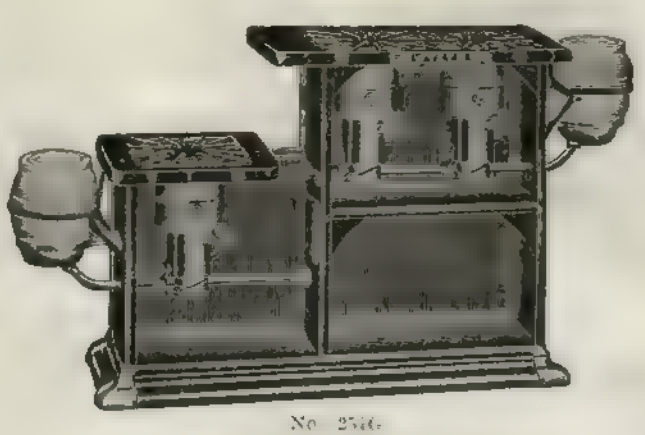
Packed, one in case

# OIL COOK STOVES

## WYETH WICK

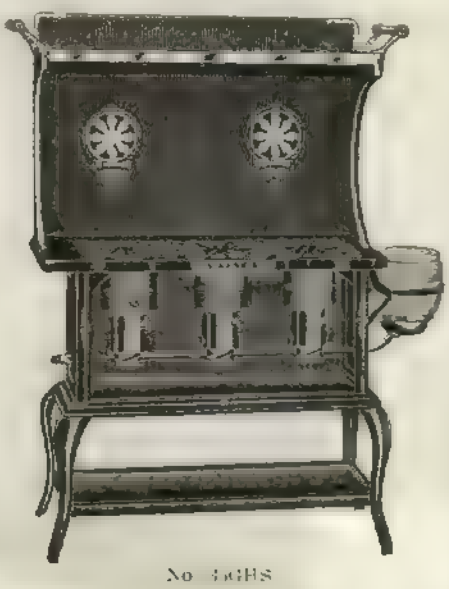
Pearl gray japanned, heavy sheet steel body; striped with gold and red; black japanned top and shelf under burners. Blue enameled burner drums with simple raising device. Removable cast iron grates. Burner automatically generates gas from kerosene oil, mixing it with air, gives an intense heat, is odorless and smokeless; removable glass oil tank away from the burners and disconnected so that there is absolutely no danger of explosions; cast sub-tank and connection in one piece, nickel plated name plate. Each stove burned, tried and thoroughly inspected before shipping from factory.

No. 45G

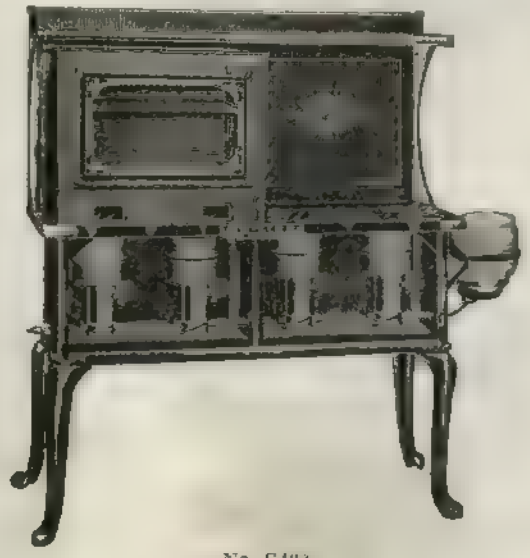


No. 257G

| | Each |
|---|---|
| **No. 15G**—One burner; top 14⅛x14½ inches; height from floor to cooking top 31 inches; weight 46 lbs | $ 8 00 |
| **No. 25G**—Two burners; top 25½x16¼ inches; height from floor to cooking top 31 inches; weight 73 lbs | 11 30 |
| **No. 35G**—Three burners; top 35½x16¼ inches; height from floor to cooking top 31 inches; weight 73 lbs | 15 00 |
| **No. 45G**—Four burners; top 44x16¼ inches; height from floor to cooking top 31 inches; weight 83 lbs | 20 00 |
| **No. 257G**—Two burners with step, main top 25½x16 inches; height from floor to cooking top 31 inches; height of step 17 inches, weight 90 lbs | 27 00 |
| **No. 357G**—Three burners with step; main top 35½x16 inches; height from floor to cooking top 31 inches, height of step 15 inches, weight 124 lbs. | 31 00 |



No. 35GHS



No. G400

| | Each |
|---|---|
| **No. 25GHS**—Two burners, top 25½x16¼ inches, height from floor to cooking top 31 inches, extreme height 54½ inches, weight 79 lbs | $17 30 |
| **No. 35GHS**—Three burners, top 35½x16¼ inches; height from floor to cooking top 31 inches; extreme height 54½ inches; weight 90 lbs. | 21.80 |
| **No. 45GHS**—Four burners, top 44x16¼ inches; height from floor to cooking top 31 inches, extreme height 54½ inches, weight 104 lbs. | 27 20 |
| **No. G400**—Four burners, with 20½x17¼x5¾ inch glass front, drop door oven; top 42x16 inches, height from floor to cooking top 31 inches, extreme height 51 inches, weight 140 lbs. | 39 60 |
| **No. 257GHS**—Two burners, with high shelf, otherwise same as No. 257G, weight 105 lbs. | 33 00 |
| **No. 357GHS**—Three burners, with high shelf, otherwise same as No. 357G, weight 141 lbs. | 37 80 |

# EXTRAS FOR WYETH OIL STOVES

## SHELVES

| | Each |
|---|---|
| **No. 2GS**—For No. 25G oil stove, length 25⅛ inches; width 10¾ inches; height 24 inches; weight 12 lbs. | $ 6 00 |
| **No. 3GS**—For No. 35G oil stove, length 34⅜ inches; width 10¾ inches; height 24 inches; weight 18½ lbs. | 6 80 |
| **No. 4GS**—For No. 45G oil stove; length 41 inches; width 10¾ inches; height 24 inches; weight 21 lbs. | 7.20 |

# NICKEL PLATED WARE

## TABLE TEA KETTLES

BURN ALCOHOL

Brushed brass; double tin lined kettle, strainer in spout; round non-heating ebonized handle and knob; complete with stand and ventilated asbestos burner.

| | |
|---|---|
| No. | 72 |
| Capacity, pints | 3 |
| Diameter kettle, inches | 6 |
| Height, inches | 10 |
| Weight, lbs. | 3 |
| Each | $8 00 |

Packed, one in wood box.

Brushed brass; tilting; double tin lined kettle strainer in spout; round non-heating ebonized handle and knob; complete with stand and ventilated asbestos burner.

| | |
|---|---|
| No. | 443 |
| Capacity, pints | 2½ |
| Diameter kettle, inches | 6 |
| Diameter base, inches | 7 |
| Height, inches | 9½ |
| Weight, lbs | 4 |
| Each | $9.50 |

Packed, one in wood box.

Nickel plated on copper; double tin lined kettle, strainer in spout; non-heating ebonized handle and knob; complete with stand and Universal alcohol burner.

| | |
|---|---|
| No. | 525N |
| Capacity, pints | 3 |
| Diameter kettle, inches | 7 |
| Height, inches | 11½ |
| Weight, lbs. | 8¼ |
| Each | $10.00 |

Packed, one in wood box

Polished copper kettle, double tin lined. strainer in spout; polished copper base and lamp; brushed brass stand and handle brackets; brass burner trimmings; non-heating ebonized handle and knob; complete with Universal alcohol burner

| | |
|---|---|
| No. | 523CB |
| Capacity, pints | 3 |
| Diameter kettle, inches | 6¼ |
| Height, inches | 11¾ |
| Weight, lbs. | 3 |
| Each | $11 50 |

Packed, one in wood box.

Polished copper kettle, double tin lined, strainer in spout; polished copper base and lamp; brushed brass stand and trimmings on kettle and burner; mission style non-heating ebonized handle and knob; complete with Universal alcohol burner.

| | |
|---|---|
| No. | 533CB |
| Capacity, pints | 3 |
| Diameter kettle, inches | 7 |
| Height, inches | 11½ |
| Weight, lbs. | 9 |
| Each | $15.00 |

Packed, one in wood box.

## SAMOVARS

BURN ALCOHOL

For making tea properly and conveniently; made of copper; heavily coated inside with pure tin; non-heating ebonwood handles, knob and faucet lever; complete with alcohol lamp

| | Each |
|---|---|
| No. 606N—Capacity six cups; nickel plated copper; size three pints; height over all 13⅛ inches; weight 8½ lbs | $12.50 |

Packed, one in wood box.

# NICKEL PLATED WARE

## CASSEROLES

### ROUND

Nickel plated on copper; metal side handles, lining and cover of brown Guernsey fireproof earthenware; ivory glazed inside

| No. | 2220 |
|---|---|
| Capacity, pints | 3½ |
| Diameter, inches | 8 |
| Weight each, lbs. | 5¼ |
| Each | $3.00 |

Packed, one in box

| No. | 2223 |
|---|---|
| Capacity, pints | 3½ |
| Diameter, inches | 8 |
| Weight each, lbs. | 5½ |
| Each | $5 00 |

Packed, one in box.

| Nos. | 2216 | 2217 |
|---|---|---|
| Capacity, pints | 3½ | 5 |
| Diameter, inches | 8 | 9 |
| Weight each, lbs. | 5½ | 6½ |
| Each | $6.50 | 7 00 |

Packed, one in box.

### OVAL

Nickel plated copper; metal side handles; lining and cover of brown Guernsey fireproof earthenware; ivory glazed inside.

| Nos. | 2218 | 2219 |
|---|---|---|
| Capacity, pints | 3½ | 5 |
| Diameter, inches | 8 | 9 |
| Weight each, lbs. | 4¾ | 5¾ |
| Each | $6.50 | 7.00 |

Packed, one in box.

### ROUND

Nickel plated frame and cover, metal side handles and feet; lining of brown Guernsey fireproof earthenware; ivory glazed inside.

| No. | 2256 |
|---|---|
| Capacity, pints | 3½ |
| Diameter, inches | 8 |
| Weight each, lbs. | 5½ |
| Each | $5 00 |

Packed, one in box.

| No. | 2257 |
|---|---|
| Capacity, pints | 3½ |
| Diameter, inches | 8 |
| Weight each, lbs. | 6 |
| Each | $6.00 |

Packed, one in box.

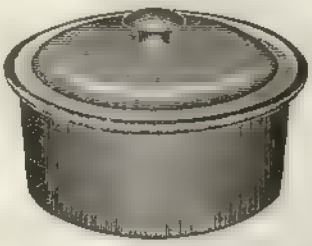
# EARTHENWARE CASSEROLE INSERTS

### ROUND

Nickel plated on brass; brown Kaota lining and cover; white inside; metal side handles.

| | Each |
|---|---|
| No. 6568 Capacity 2 pints; diameter 8 inches; weight 6 lbs | $ 2 50 |

Packed, one in box.



Guernsey is of a rich brown color with porcelain lining; sanitary and acid proof; will withstand any heat except a direct flame; cold water on hot utensils will crack them.

### ROUND

| Nos. | 8 | 9 |
|---|---|---|
| Capacity, pints | 3½ | 5 |
| Diameter, inches | 8 | 9 |
| Weight each, lbs. | 3½ | 4 |
| Each | $2.00 | 3.50 |

### OVAL

| Nos. | 80 | 90 |
|---|---|---|
| Capacity, pints | 3½ | 5 |
| Size, inches | 5¾x8 | 6¾x9 |
| Weight each, lbs. | 3 | 3¾ |
| Each | $2 00 | 3.50 |

## STEELYARDS

### AMERICAN OR DOMESTIC PATTERN

Iron head, black japanned, polished steel beam, iron poise black japanned; steel head hook; two steel pendant hooks; balanced heads and stops; 50-lb. size weighs by ounces; 100-lb. size weighs by 2 ounces, 150 and 200-lb. sizes weigh by 4 ounces.

| Capacity, lbs. | 50 | 100 | 150 | 200 |
|---|---|---|---|---|
| Weight per dozen, lbs. | 32 | 48 | 64 | 82 |
| Dozen | $10 00 | 12 00 | 15 50 | 17 50 |

Packed, one-half dozen in case.

## SCALE BEAMS

Made from best quality steel; tested by sealed weights; japanned beam with white figures and gold stripes; steel head and pendant hooks; two iron poises, black japanned.

| Capacity, lbs. | 150 | 200 | 250 | 300 | 400 | 500 | 600 |
|---|---|---|---|---|---|---|---|
| Weight, lbs. | 8 | 8½ | 14 | 18 | 22 | 28 | 32½ |
| Each | $2.00 | 2.20 | 2.60 | 2.90 | 4.00 | 4.80 | 5.60 |

Packed, 150 to 500-lb., six in case, with poises; 600-lb., six in case, poises packed separate.

## SCALE BOOKS

No.....191....

Load of ..

From ..

To ..

Gross .....lbs.

Tare.....lbs.

@..... Net.....lbs.

$..... Net.....bus.

ON OFF .....Weigher.

**LEGAL WEIGHTS**

| | Lbs. per bu. |
|---|---|
| Apples | 48 |
| Barley | 48 |
| Bran | 20 |
| Beans | 60 |
| Buckwheat | 52 |
| Corn, on Cob | 70 |
| Corn Shelled | 56 |
| Corn Meal | 50 |
| Clover Seed | 60 |
| Flax Seed | 56 |
| Hung Grass Seed | 45 |
| Lime | 80 |
| Oats | 32 |
| Onions | 57 |
| Potatoes | 60 |
| Rye | 56 |
| Salt | 50 |
| Stone Coal | 80 |
| Sand | 130 |
| Sweet Potatoes | 46 |
| Timothy Seed | 45 |
| Wheat | 60 |

**WEIGHED ON STANDARD SCALES.**

No.....191....

Load of .....

From .....

To .....

Gross .....lbs.

Tare .....lbs.

@ ..... Net.....lbs.

$..... Net.....bus.

ON OFF .....Weigher.

Showing a stub taken from a Standard Scale Book.

| | Each |
|---|---|
| Standard—100 sheets 8x13½ inches, each sheet containing five blanks (with stubs); weight 2 lbs. | $ 0.70 |

Packed, one-half dozen in package

## *STOCK RACK IRONS

The American Stock Rack permits of using the scale for bulky loads and it is built entirely on the scale platform so that anything touching it while on the scale will not affect the weighing process. When not in use for weighing stock it can be folded back to a half open position in a few minutes and when folded back it is so far out of the way that the largest load of hay can be weighed without removing it. In winter it can be utilized as a protection from snow by weatherboarding the sides and ends, and folding the sides over until they meet in the center, forming a roof. All the irons required to build this stock rack and full building directions will be supplied on order. These irons are much heavier than are commonly used and are especially made and shaped for this stock rack.

| | Set |
|---|---|
| No. 8R1—Stock rack irons; set consists of 12 male hinges, 12 female strap hinges and latch; weight 30 lbs. | $ 6.50 |

Packed, one set in box.

NOTE—Goods marked thus (*) are for factory shipment only.

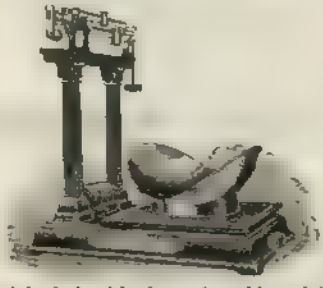
# SCALES

## IMPROVED UNION

| | Each | |
|---|---|---|
| No. 780—Two brass beams; two platforms; main platform, 10x13¾ inches, seamless tin scoop; with weights; capacity in scoop, 32 lbs by half ounces; on main platform, 245 lbs. by half ounces; weight 61 lbs. | $15 50 | $19 64 |

Packed, one in box.

## NIAGARA COUNTER

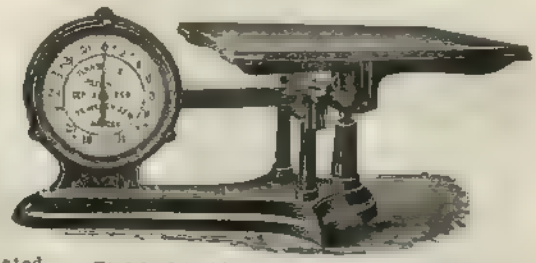


Finished in black and gold; nickel plated steel beams, poises and trig loop; patent scoop balancing latch; double beams with countersunk figures and spaces, which are very easy to read; upper bar weighs 10 lbs. by ounces; lower bar weighs 25 lbs by quarter pounds; capacity 255 lbs. by ounces; with weights.

| | Each | |
|---|---|---|
| No. 797—Seamless tin scoop; height 24 inches; size of platform, 13¾x12¾ inches; weight 82 lbs. | $25.00 | $31.66 |
| No. 799—Seamless brass scoop; height 24 inches; size of platform, 13¾x12¾ inches; weight 85 lbs. | $27.00 | 34 20 |

Packed, one in box.

## BUTCHERS'



Finished in black; with red and gold stripes, 7-inch dials; with glass sash; 11½x14½-inch marble platform; steel bearings throughout

| | Each |
|---|---|
| No. 033—Capacity 32 lbs by ounces, weight 49 lbs | $17.00 |
| No 043 Capacity 64 lbs by 2 ounces; weight 45 lbs. | 19.00 |

Packed, one in box

## PORTABLE PLATFORM

### WYCO

Platform black enameled; heavy malleable iron castings, maroon with gold stripes; black body; blue pillar and cap with gold stripes; wheels under platform mounted on swivels, encased under the body casting and out of the way.

| | Each |
|---|---|
| No. 1 Capacity 600 lbs., size of platform 16½x24½ inches; weight 146 lbs. | $22 00 |

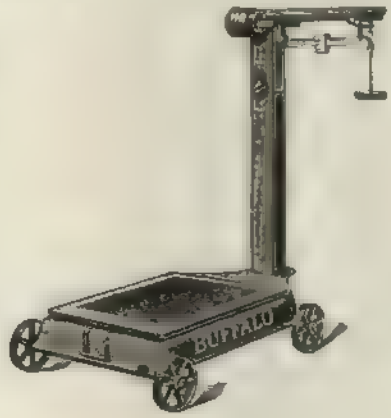
Packed, one in box.

### AMERICAN

Black cast body; blue pillar and cap; striped in gold

| | Each |
|---|---|
| No. 2—Capacity 600 lbs.; size of platform 16x23 inches; weight 150 lbs. | $20 00 |

Packed, one in box.



### BUFFALO

Brass beam with sliding brass poise

| | Each |
|---|---|
| No 1200 Capacity 400 lbs., beam marked to 50 lbs by quarter pounds, weight 156 lbs. | $31.00 |
| No. 1202 Capacity 600 lbs., beam marked to 50 lbs by quarter pounds; weight 172 lbs | 36 50 |
| No. 1204—Capacity 800 lbs.; beam marked to 100 lbs. by half pounds; weight 194 lbs. | 40 00 |

Packed, one in box.

## SCALE WEIGHTS

For even balance scales

| Ounces | ½ | 1 | 2 | 4 | 8 |
|---|---|---|---|---|---|
| Each | $0.22 | .24 | .26 | .28 | .48 |
| **Pounds** | **1** | | **2** | **4** | **8** |
| Each | $0 48 | .60 | 1 20 | 2.00 | |

For union scales.

| Pounds | 5-40 | 10-80 |
|---|---|---|
| Weight, lbs. | ¾ | 1½ |
| Each | $0.48 | .70 |

For platform scales

| Pounds | 50 | 100 | 200 | 300 | 400 | 500 |
|---|---|---|---|---|---|---|
| Weight, lbs. | ½ | 1 | 2 | 3 | 4 | 5 |
| Each | $0 42 | .42 | .60 | 1.00 | 1 20 | 1.50 |

# NAILS

## STEEL CUT

STANDARD LIST ADOPTED APRIL 30th, 1902

4D

6D

8D

10D

16D

20D

### COMMON BLUED

| Size | 4D | 6D | 8D | 10D | 16D | 20D |
|---|---|---|---|---|---|---|
| Length, inches | 1½ | 2 | 2½ | 3 | 3½ | 4 |
| Number to the lb. | 280 | 160 | 88 | 60 | 33 | 23 |
| Add to base price, per keg | $0.30 | .20 | .10 | .05 | .05 | Base |

Packed, 100 pounds in keg

### COMMON

| Size | 3D |
|---|---|
| Length, inches | 1¼ |
| Number to the lb | 460 |
| Add to the base price, per keg—Polished | $0 45 |
| Blued | .45 |
| Galvanized | 2.00 |

Packed, 100 pounds in keg.

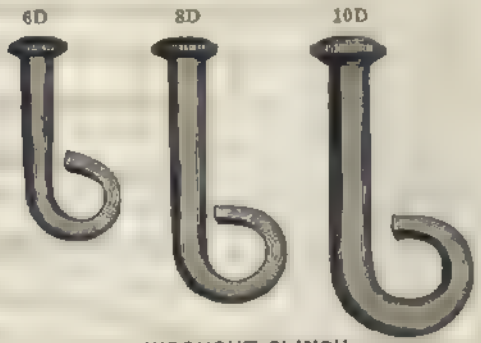
8D

10D

### CASING

| Size | 8D | 10D |
|---|---|---|
| Length, inches | 2½ | 3 |
| Number to the lb | 130 | 90 |
| Add to base price, per keg | $0.25 | .15 |

Packed, 100 pounds in keg.



6D 8D 10D

### WROUGHT CLINCH

| Size | 6D | 8D | 10D |
|---|---|---|---|
| Length, inches | 2 | 2½ | 3 |
| Number to the lb | 100 | 68 | 48 |
| Add to base price, per keg | $0.65 | .55 | .45 |

Packed, in half-kegs of 50 pounds.

6D

8D

10D

### WROUGHT HINGE

| Size | 6D | 8D | 10D |
|---|---|---|---|
| Length, inches | 2 | 2½ | 3 |
| Number to the lb | 90 | 62 | 43 |
| Per 100 lbs. | $8.00 | 7.80 | 7.60 |

Packed, 25 pounds in box.

¾ ⅞ 1

1¼ 1½

### BARREL

| Length, inches | ¾ | ⅞ | 1 | 1¼ | 1½ |
|---|---|---|---|---|---|
| Number to the lb | 800 | 625 | 351 | 229 | 185 |
| Add to base price, per keg | $1 00 | 85 | .70 | 50 | .30 |

Packed, 100 pounds in keg

## IRON CUT

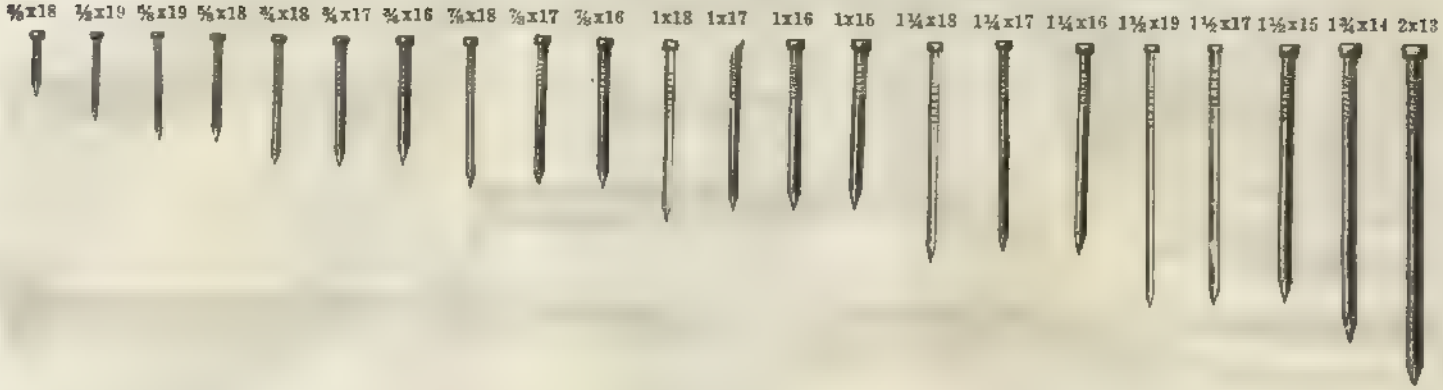
### COMMON

| Size | 3D |
|---|---|
| Length, inches | 1¼ |
| Number to the lb | 460 |
| Add to base price, per keg—Polished | $0.45 |
| Blued | .45 |

Packed, 100 pounds in keg.

## STEEL WIRE BRADS

STANDARD LIST ADOPTED JANUARY 1ST, 1901

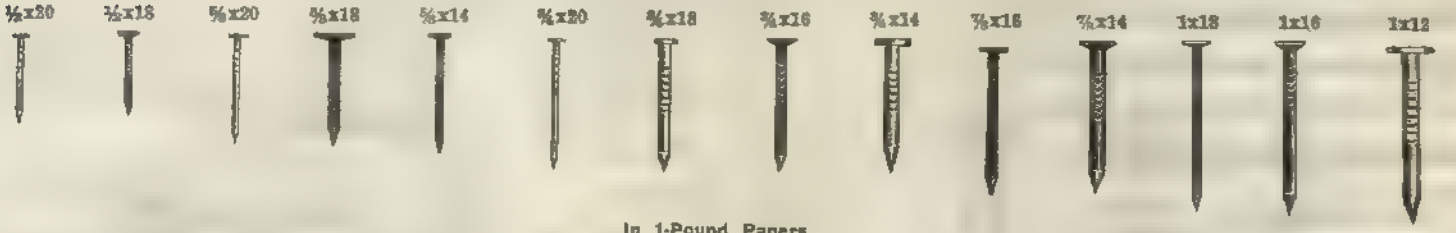



| Length, inches | ⅜ | ½ | ⅝ | ⅝ | ¾ | ¾ | ¾ | ⅞ | ⅞ | ⅞ | 1 | 1 | 1 | 1 | 1¼ | 1¼ | 1¼ | 1½ | 1½ | 1½ | 1¾ | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wire gauge Nos. | 18 | 19 | 19 | 18 | 18 | 17 | 16 | 18 | 17 | 16 | 18 | 17 | 16 | 15 | 18 | 17 | 16 | 19 | 17 | 15 | 14 | 13 |
| Average number in lb. | 5517 | 5334 | 4267 | 3310 | 2758 | 2077 | 1523 | 2364 | 1781 | 1305 | 2069 | 1558 | 1143 | 886 | 1655 | 1246 | 933 | 584 | 1038 | 584 | 406 | 268 |
| Dozen boxes in ¼-lb. papers | $.... | 2.49 | 2.19 | 1.98 | 1.80 | .... | 1.53 | 1.59 | .... | .... | .... | 1.44 | .... | 1.23 | .... | .... | 1.26 | .... | .... | 1.17 | 1.11 | 1.08 |
| | .... | .74 | .65 | .59 | .54 | .... | .46 | .48 | .... | .... | .... | .43 | .... | .37 | .... | .... | .38 | .... | .... | .35 | .34 | .32 |
| Pound in ½-lb. papers. | .84 | .79 | .69 | .... | .56 | .... | .... | .49 | .... | .43 | .47 | .44 | .40 | .... | .47 | .43 | .38 | .... | .42 | .35 | .33 | .32 |
| | .26 | .24 | .21 | .... | .17 | .... | .... | .15 | .... | .13 | .15 | .14 | .12 | .... | .16 | .13 | .12 | .... | .13 | .11 | .10 | .10 |
| Pound in 10-lb. boxes.. | .... | .79 | .... | .... | .52 | .50 | .... | .... | .47 | .... | .... | .44 | .40 | .37 | .... | .43 | .38 | .... | .... | .35 | .33 | .... |
| | .. | .24 | .... | .... | .16 | .15 | .... | .... | .14 | .... | .... | .14 | .12 | .11 | .... | .13 | .12 | .... | .... | .11 | .12 | .10 |
| Pound in 25-lb boxes.. | .... | .74 | .64 | .... | .51 | .45 | .... | .... | .42 | .... | .42 | .39 | .35 | .32 | .42 | .38 | .38 | .... | .37 | .30 | .28 | .27 |
| | | .22 | .19 | .... | .15 | .14 | .... | .... | .13 | .... | .13 | .12 | .11 | .10 | .13 | .12 | .10 | .... | .11 | .09 | .08 | .08 |

NOTE—In ordering, always specify length, gauge, No. and quantity in package.

## SMOOTH FLAT HEAD STEEL WIRE NAILS

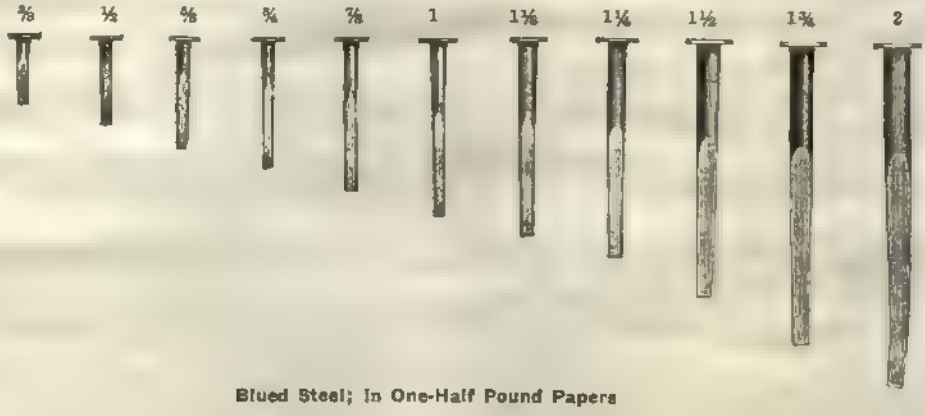
STANDARD LIST ADOPTED JANUARY 1, 1901




In 1-Pound Papers

| Length, inches | ⅜ | ½ | ⅝ | ⅝ | ¾ | ¾ | ¾ | ¾ | ¾ | ⅞ | ⅞ | 1 | 1 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wire guage, Nos. | 20 | 18 | 20 | 18 | 14 | 20 | 18 | 16 | 14 | 16 | 14 | 18 | 16 | 12 |
| Average number in lb. | 7500 | 4138 | 6000 | 3310 | 1136 | 5000 | 2758 | 1523 | 947 | 1305 | 811 | 2069 | 1143 | 411 |
| Pound. | $0.85 | .65 | .75 | .58 | .43 | .70 | .52 | .43 | .38 | .39 | .33 | .42 | .35 | .30 |
| | 26 | 20 | .23 | .18 | .17 | .21 | 16 | 13 | 12 | 12 | .11 | 13 | 11 | 09 |

## CLOUT NAILS




Blued Steel; In One-Half Pound Papers

| Length, inches | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pound | $0.62 | .43 | .36 | .33 | .31 | .29 | .29 | .29 | .29 | .29 | .29 |
| | .25 | .17 | .15 | .14 | .12 | .12 | .12 | .12 | .12 | .12 | .12 |

# Fine Drop Clusters and Hall Lights

**Always State Height of Ceiling When Ordering**

PRICES EACH

**FIVE-LIGHT CHAIN CLUSTER**

Fine brushed brass. Four chain pendant lights and one direct center light. Frosted globes. Length 36 inches with 17 inch spread. Wired complete as shown.

No. 40612.....each $62.25

**FIVE-LIGHT CHAIN CLUSTER**

Fine brushed brass chains and fittings. Four chain pendant lights equipped with Curtasses. Indirect center light with fancy design globe. Length, 42 inches, 18 inch spread. Wired complete as shown.

No. 30952.....each $47.40

**SIX-LIGHT CHAIN CLUSTER**

Fine brushed brass chains and fittings. Five chain pendant lights with fancy glass globes. Indirect center light with art glass globe. Length, 46 inches, 26-inch spread. Wired complete as shown.

No. 40642.....Each $57.85

**FIVE-LIGHT CHAIN CLUSTER**

Fine brushed brass chains and fittings. Four art glass pendants. Fine art center light. Length, 42 inches, spread 18 inches. Wired complete as shown.

No. 30942.....Each $59.90

**FIVE-LIGHT CHAIN CLUSTER**

Fine brushed brass and fittings. Four art glass pendants, one art indirect center light. Length, 42 inches; spread, 18 inches. Wired complete as shown.

No. 30963.....Each $62.50

**HALL LIGHT**

Fine brushed brass chain and fittings. Length, 36 inches; 6x9-inch art glass lantern. Wired complete as shown.

No. 14452.....Each $29.60

**HALL LIGHT**

Fine brushed brass. Length, 36 inches, 6x9-inch art glass lantern, with chain pull socket. Wired complete as shown.

No. 14442.....Each $34.75

# Fine Cluster Drop Chandeliers and Art Domes

*Always state height of ceilings when ordering*

*Prices Each*

**FIVE LIGHT CLUSTER**

Fine brushed brass light pan suspended by 4 heavy chains, 4 small frosted glass globes, one large globe in center. Length 36 inches, 17 inch spread. Wired complete as shown.

No **40192** . . . . . Each **$26.00**

**THREE LIGHT ART DOME**

Fine brushed brass chains and fittings; 24-inch art glass dome shade, length 40 inches, 3 pull sockets. Wired complete as shown.

No. **30892** . . . . . Each **$36.35**

**THREE LIGHT CHAIN DROP CLUSTER**

Fine brushed brass chains and fittings; leaded glass effect globes, length 35 inches, 16 inch spread. Wired complete as shown.

No **40392-3** . . . . . Each **$30.75**

4-light same as above.

No **40392-4** . . . . . Each **$35.45**

**FOUR LIGHT CHAIN CHANDELIER**

Fine brushed brass chains and center pan, 4 glass pendant globes. Length 36 inches, 20 inch spread. Wired complete as shown.

No **30682** . . . . . Each **$28.35**

**FIVE LIGHT CHAIN CLUSTER**

Fine brushed brass, 4 heavy chains with frosted glass pendants, one light in large center globe. Length 24 inches, spread top pan 17 inches. Wired complete as shown.

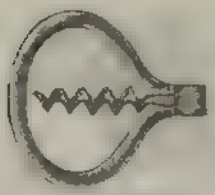
No **40182** . . . . . Each **$27.15**

**FOUR LIGHT CHAIN CLUSTER**

Fine brushed brass chandelier, chains and fittings; 4 frosted glass globes. Length 36 inches, 18 inch spread. Wired complete as shown.

No **40312** . . . . . Each **$28.35**

# CORK SCREWS

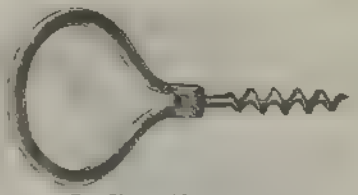


Cut Shows No. 30 Folded

Per Dozen

**No. 30—Folding;** Malleable Iron Handle and Screw; Tumbled Bright Finish; Length of Screw 2 inches; Length Over All 4⅜ inches; Length Folded 2⅜ inches; Weight per Dozen 1¼ lbs..... $1 90

One Dozen in a Box



Cut Shows No. 30 Open

Cut Shows No. 1 Assembled Ready for Use

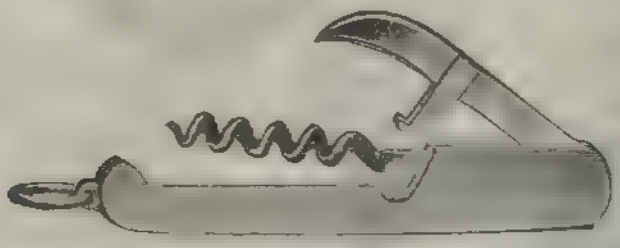
Cut Shows No. 1 with Screw Enclosed in Handle and Locked

Cut Shows No. 1 with Enclosed Screw in Handle Preparatory to Screwing on the Cap.

Per Dozen

**No. 1—Takedown;** Bright Steel Hollow Barrel Handle; Forged Bright Steel Screw, Length of Screw 2¼ inches; Length of Handle 2⅜ inches; Easily and Quickly Assembled and Taken Down, so it can be Carried in the Pocket without Danger of Injury or Catching on to the Contents of the Pocket; Weight per Dozen ⅜ lb..... $5 00

One Dozen in a Box

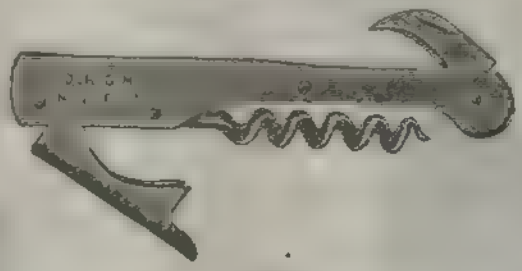


REFORM

Per Dozen

**No. 550—Folding;** Steel Handle and Spring with Forged and Turned Cork Screw; Steel Cap Lifter and Wire Cutter; Steel Spur Inserted in End of Handle, Full Nickel Plated and Polished, Length of Screw 2½ inches, Length of Handle 4 inches; Weight per Dozen 1½ lbs. $11.50

One Dozen in a Box



LEVER

Per Dozen

**No. 3K—Folding;** Steel Handle and Spring; with Steel Wire Cork Screw; Steel Lever to Rest on Mouth of Bottle to Assist in Drawing very Tight Corks, Steel Wire Cutter, Full Nickel Plated and Polished, Length of Screw 2¼ inches, Length of Handle 4¼ inches; Weight per Dozen 2 lbs.. $9.35

Half Dozen in a Box

Per Dozen

**No. 3**—Bright Forged Steel Screw, Length 3⅜ inches; Turned Beechwood Handle, Length 3 inches, Oiled Finish; with Wire Ring through End of Shank to Hang up; Weight per Dozen 1¾ lbs. $3.30

One Dozen in a Box

BALLET

Per Dozen

**No. 537**—Bright Forged Steel Screw, Length 2⅝ inches; Folding Handle, Pocket Knife Style; Steel Springs; German Silver Lined; Assorted Blue and White and Red and White Celluloid Handles with German Silver Tips; Length Folded 2⅝ inches; Weight per Dozen 1½ lbs... $13.90

One Dozen in a Box

Per Dozen

**No. 2**—Bright Forged Steel Screw, Machine Cut, Length 3¼ inches; Turned Beechwood Handle, Length 3½ inches, Red Stained; With Split Ring through End of Shank to Hang up; Weight per Dozen ⅞ lb..... $2 20

Two Dozen in a Box

## THE TRIPLET TOOL

Key Holder, Screw Driver, Paper Cutter, Bottle Cap Opener, Pocket Knife Opener; also can be Used for Many Other Purposes.

Per Dozen

**Triplet Tool**—Stamped Steel, Nickel Plated, Length 2⅝ inches, Weight per Dozen 6 ozs..... $1.65

One Dozen on a Card; Twelve Cards in a Box. We Will Not Break Cards.

# COMPASSES

Per Dozen
No. 1770 35—[illegible] in. Paper Dial; Brass [illegible] Ring; Weight per Dozen 4 ozs.. $6.00
Half Dozen in a Package

Per Dozen
No. 1850 2—2 in. Paper Dial; Brass Case with Cover; Weight per Dozen 10 ozs ..... $5.00
One Dozen in a Package

Per Dozen
No. 1820 1½—1¾ in. Polished Metal [illegible], Nickel Plated Brass Hunting [illegible] with Ring; with Stop and Jeweled Needle; Weight per Dozen 14 ozs $66.00
Half Dozen in a Package

Per Dozen
No. 1774/40—1¼ in. Polished Metal Dial; Nickel Plated Brass Open Case, Weight per Dozen 10 ozs... $8 90
Half Dozen in a Package

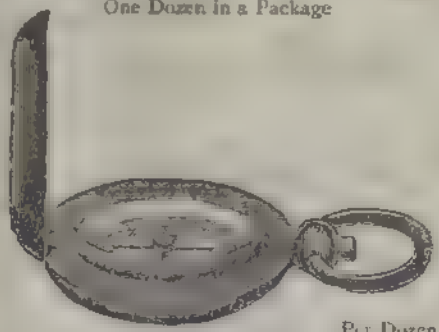
Per Dozen
No. 1702 45—1¾ in. Metal Dial; Brass Open Case with Ring; with Stop and Jeweled Needle; Weight per Dozen 11 ozs.... $10.80
One Dozen in a Package

Per Dozen
No. 1775 40—1¼ in. Paper Dial; Nickel Plated Brass Hunting Case with Ring; Weight per Dozen 7 ozs. $14.85
Half Dozen in a Package

Per Dozen
No. 1718/45—1¾ in. Metal Dial; Nickel Plated Brass Hunting Case with Ring; Stop and Jeweled Needle; Weight per Dozen 22 ozs..... $44 00
One Dozen in a Package.

Per Dozen
No. 1771 45—1¾ in. Paper Dial; Brass Case with Cover; Weight per Dozen 7 ozs..... $7 50
Half Dozen in a Package

Per Dozen
No. 1703/40—1¼ in. Metal Dial; Brass Case with Cover; with Stop; Weight per Dozen 18 ozs. $17.00
One Dozen in a Package

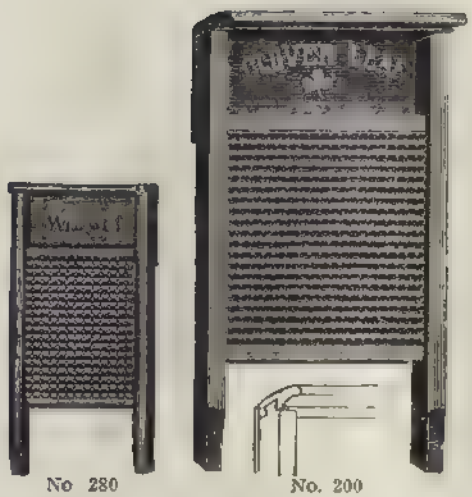


Per Dozen
No. 1777 47—1¾ in. Paper Dial; Nickel Plated Brass Hunting Case with Ring; Stop and Jeweled Needle; Weight per Dozen 11 ozs..... $24.20
Half Dozen in a Package

Per Dozen
No. 1752 70—2½ in. Metal Dial; Wood Case 3x3 in.; Hinged Cover with Hook; Stop and Jeweled Needle; Weight per Dozen 3⅛ lbs..... $44 00
One Dozen in a Package

Per Dozen
No. 1750/70—2½ in. Cardboard Dial, Wood Case 3x3 in.; Hinged Cover with Hook; with Stop, no Needle; Weight per Dozen 2⅝ lbs.. ..... $18.70
One Dozen in a Package

# WASH BOARDS



No 280 No. 200

### MIDGET

Solid back; length 15 inches; pail size.

Doz.

No. 280—Single zinc rubbing surface, globe crimp, 5¾x7½ inches; weight per dozen 23 lbs.....$ 2.50

Packed, one dozen in crate.

### CLOVER LEAF

Ventilated back; length 23½ inches; small family size.

Doz.

No. 200—Single zinc rubbing surface, globe crimp, 10x10½ inches; weight per dozen 28 lbs.....$ 4.20

Packed, one-half dozen in crate.

### ELECTRIC CITY

Ventilated back; length 24 inches; standard family size.

Doz.

No. 204—Single zinc rubbing surface, globe crimp, 10¾x11 inches; weight per dozen 32 lbs .....$ 4.90

Packed, one-half dozen in crate.

### BRASS JUNIOR

Truss back, 1⅛ inch, round, wood trusses, length 23¼ inches.

Doz.

No. 802—Single brass rubbing surface, spiral crimp, 10x10¼ inches; weight per dozen 24 lbs.....$ 5 20

Packed, one-half dozen in crate.

### DIXIE GLOBE

Double; globe crimp on front side, eagle crimp on back; length 24 inches

Doz.

No. 322 Zinc rubbing surface, 9¾x10¼ inches; weight per dozen 33 lbs.....$ 8.10

Packed, one-half dozen in crate.

### BRASS KING

Truss back, 1⅛-inch, round, wood trusses; length 24 inches.

Doz.

No. 801—Single brass rubbing surface, spiral crimp 10⅞x11 inches, weight per dozen 30 lbs .....$ 6.30

Packed, one-half dozen in crate.

### GLASS CHIEF

Corrugated glass; length 24½ inches; superior finish; guaranteed

Doz.

No. 410 Single, rubbing surface, 11x12 inches; weight per dozen 66 lbs.....$ 7.00

Packed, one-half dozen in crate.

## WASH BOARDS

### WYETH BANNER

Hardwood frame with galvanized rod at bottom for reinforcement length 24 inches.

| | Doz. |
|---|---|
| No. 444—Double, extra heavy zinc rubbing surface, pencil crimp on both sides, 10x12⅛ inches; weight per dozen 36 lbs. | $ 7.20 |

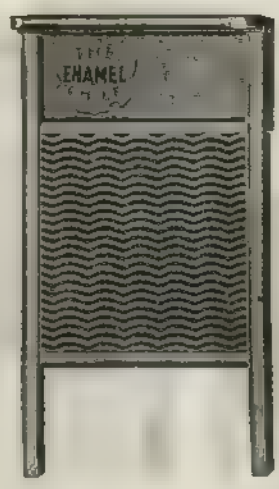
Packed, one-half dozen in crate.

### WHITE HEN

Spiral crimp glass; truss back; length 24½ inches.

| | Doz. |
|---|---|
| No. 862—Single, rubbing surface, 10⅞x12⅛ inches; weight per dozen 58 lbs. | $ 7.50 |

Packed, one-half dozen in crate.



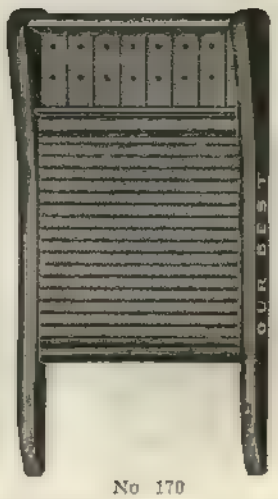

### ENAMEL KING

Blue enamel; length 24½ inches.

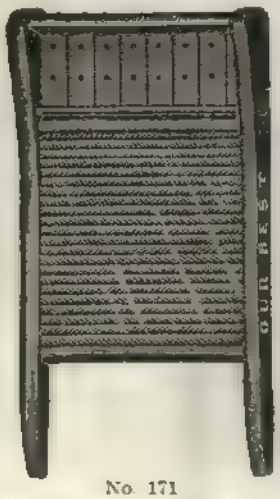
| | Doz. |
|---|---|
| No. 420—Single, rubbing surface, wave crimp, 10⅞x12⅛ inches; weight per dozen 39 lbs. | $ 7.50 |

Packed, one-half dozen in crate.

## OUR BEST

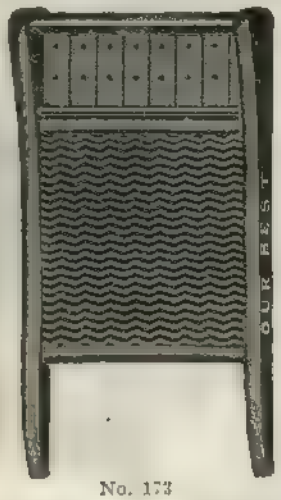



No. 170




No. 171

No. 172




No. 173

One-piece metal head, perforated and curved, causing all soap drainings to flow over the rubbing board; wood sides, length 24½ inches

| | Doz. |
|---|---|
| No. 170 Extra heavy brass rubbing surface, spiral crimp, 10⅞x12 inches; ventilated back; weight per dozen 41 lbs. | $ 9 00 |
| No. 171 Extra heavy solid glass rubbing surface, spiral crimp, size 10⅞x12 inches; weight per dozen 68 lbs. | 8.70 |

**Sold Only in Assortment No. 169.**

No. 172 Extra heavy zinc rubbing surface, globe crimp, size 10⅞x12 inches; ventilated back.

No. 173 Rich blue enameled, heavily coated flexible rubbing surface, angle crimp, size 10⅞x12 inches; ventilated back.

### ASSORTMENT

| | Asst. |
|---|---|
| No. 169 Consists of ½ dozen each Nos. 170 and 172 1 12 dozen each Nos 171 and 173, as described above, weight 23 lbs | $ 4.40 |

Packed, one-half dozen in crate.

# *LATHES

## BARNES SCREW CUTTING

No. 4½

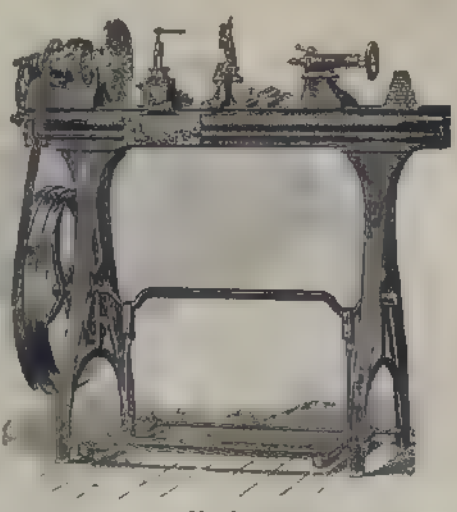
NOTE.

**Chucks are not included in prices as given on Power Lathes. When Chucks are wanted always specify make and size wanted. An Extra Charge is made for fitting Chucks which varies according to make and size. Prices for fitting given upon application.**

### ✣ FOOT POWER

Painted Black, Cast Iron Frame, Seat, Gear and Pulley Wheels; Gearing Cut from Solid Steel; Steel Shafts; Back Geared, Screw Cutting; Feeds Right or Left without Change of Gearing; Carriage is Adjustable for Taper Boring or Ball Turning; Carriage Gibbed to Take up Wear; The Tail Stock has Side Movement to Adjust Centers for Turning Tapers; the Head Stock has Hollow Spindle for Passing Rods Through.

The Small Pulley on Cone is 2½ inches in Diameter; the Large Pulley 4½ inches; Has three Speeds, and is Suitably Arranged for Heavy or Light Work in Turning or Polishing

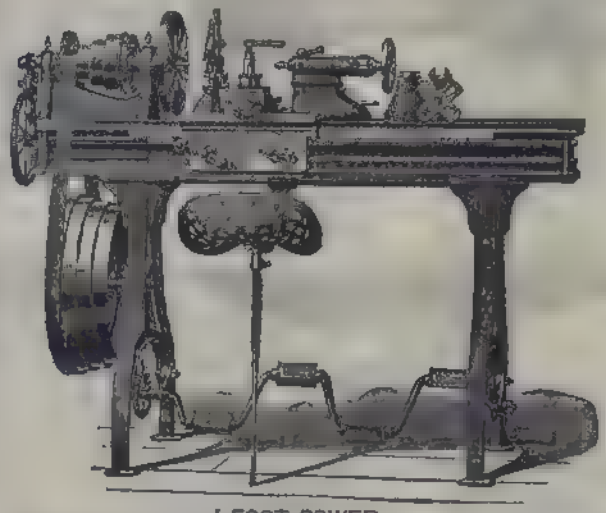


No. 5

No. 4½—Swings 9 inches on the Face Plate, 4¾ inches Over the Tool Carriage; the Head Stock Takes ⅜ inch Rod, Indexed for Threads 5 to 40; Each Height Over All 46 inches; Floor Space Required 24x42 inches; Distance Between Centers 25 inches; Weight Net 270 lbs.; Boxed for Shipment 340 lbs. ..... **$165.00**

No. 5 —Swings 11 inches on the Face Plate, 6⅝ inches Over the Tool Carriage; the Head Stock Takes 15-32 inch Rod; Indexed for Threads 4 to 40; Height Over All 48 inches; Floor Space Required 24x64 inches. Distance Between Centers 34 inches. Weight Net 385 lbs.; Boxed for Shipment 500 lbs. ..... **220.00**

One in a Case



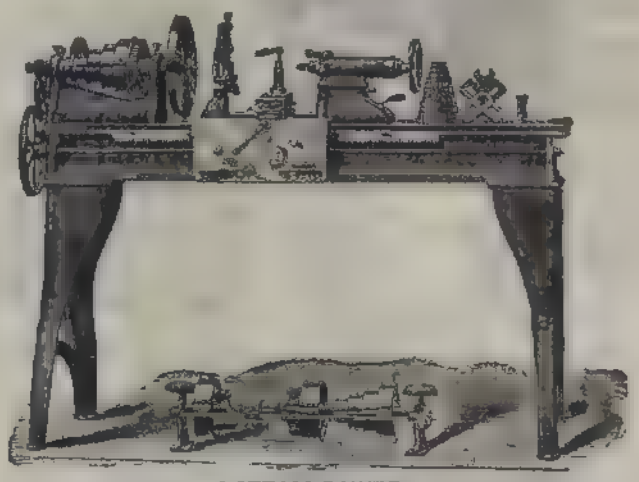
### ✣ FOOT POWER

Designed to do as Heavy Work as is Practical by the Use of Foot Power

With Patent Twin Screw Feed and Screw Cutting Combination, which Makes Change of Feed in the Tool Carriage Instead of the Head Stock, Greatly Simplifying and Reducing the Number of Parts Used, the Tail Stock has Side Movement to Adjust Centers for Turning Tapers; the Head Stock has Hollow Spindle for Taking Rods up to ½ inch, the Gearing is Cut from Solid Steel; Indexed for Threads 4 to 36, and Change of Gears can be Made to Cut Many Other Threads.

Cast Iron Frame, Gear and Pulleys, Painted Black; Swing on Face 13 inches; Swing Over Carriage 8 inches.

| Nos | 55½ | 65½ | 85½ |
|---|---|---|---|
| Length Bed, Feet | 5 | 6 | 8 |
| Distance Between Centers, Inches | 33 | 45 | 69 |
| Net Weight, Lbs | 640 | 690 | 790 |
| Weight Boxed, Lbs | 775 | 850 | 950 |
| Each | $270 00 | 290 00 | 330 00 |



### ✣ STEAM POWER

With Automatic Cross Feed and Compound Rest, Cast Iron Frame Gear and Pulleys, Painted Black; Swing on Face Plate 13 inches; Swing Over Carriage 8 inches, the Head Stock has a Hollow Steel Spindle, which will Take ½ inch Rod Through its Entire Length; the Tail Stock can be Readily Set at Any Point or Taken from the Lathe without Removing Nuts or Bolts, it can be Set Over for Turning Tapers; Spindles for Both Head and Tail Stocks are of Steel with True Taper Holes; Feed is Regulated, Coarse or Fine, by Lever; Indexed for Threads 4 to 32 and the Change Gears Can be Combined for Many Other Threads.

**With Countershaft**

| Nos | 136 | 138 | 1310 |
|---|---|---|---|
| Length Bed, Feet | 6 | 8 | 10 |
| Distance Between Centers, Inches | 45 | 69 | 93 |
| Net Weight, Lbs | 690 | 790 | 950 |
| Weight Boxed, Lbs | 850 | 950 | 1150 |
| Each | $354 00 | 394.00 | 434.00 |

One in a Case

## LATHE DOGS

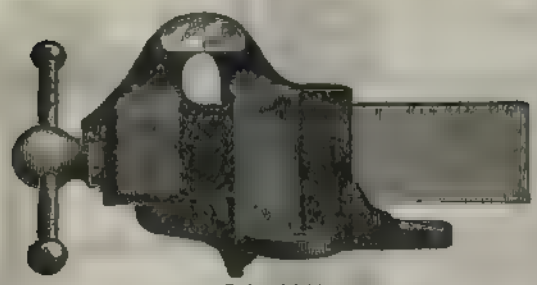
Made from Extra Refined Steel Castings, and are Provided with U. S. Standard Steel Screws with Hardened Points; Natural Finish.

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Opening, Inches | ⅛ | ⅛ | ¼ | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ | 3 | 3½ | 4 |
| Weight, Each, Lbs. | ⅛ | ⅛ | ⅛ | ¼ | 1 | 1¼ | 1¼ | 1⅜ | 1½ | 2 | 2¼ | 2½ |
| Each | $0.25 | .30 | .35 | .35 | .40 | .40 | .50 | .50 | .80 | .90 | .70 | .80 |

Loose

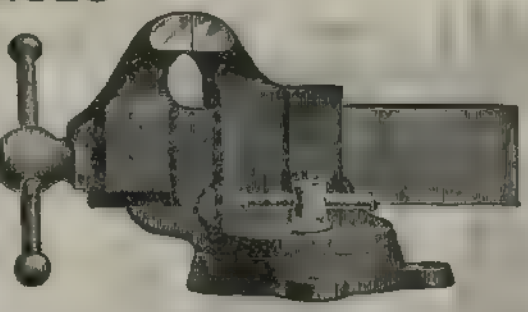
**Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Rockford, Ill.**

# MACHINISTS' VISES



### STANDARD

Parallel Solid Jaws. Welded Steel, Hardened and Polished Faces; Japanned Cast Iron Body; with Polished Slide Bar and Screw Head; Polished Wrought Steel Sliding Handle Bar.



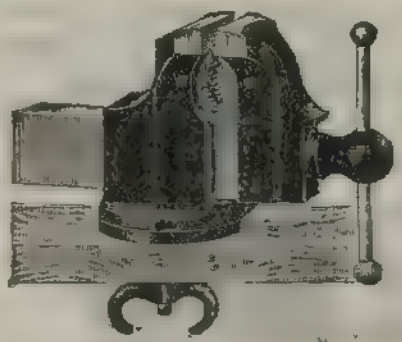
### STATIONARY BASE

| Nos | 103 | 103½ | 104 | 104½ | 105 |
|---|---|---|---|---|---|
| Width Jaws, Inches | 3 | 3½ | 4 | 4½ | 5 |
| Jaws Open, Inches | 4 | 5 | 6 | 6½ | 7½ |
| Length Closed, Inches | 13½ | 15 | 17 | 18 | 20 |
| Weight Each, Lbs. | 22 | 28 | 42 | 54 | 75 |
| Each | $6 00 | 7 00 | 8 50 | 10 00 | 13 00 |
| | **6 00** | **7 00** | **8 50** | **10 00** | **13 00** |

### SWIVEL BASE

| Nos | 203 | 203½ | 204 | 204½ | 205 |
|---|---|---|---|---|---|
| Width Jaws, Inches | 3 | 3½ | 4 | 4½ | 5 |
| Jaws Open, Inches | 4 | 5 | 6 | 6½ | 7½ |
| Length Closed, Inches | 13¾ | 15 | 17 | 18 | 20 |
| Weight Each, Lbs | 28 | 38 | 54 | 69 | 90 |
| Each | $7 50 | 8 75 | 10 50 | 12 50 | 16 00 |
| | **7.50** | **8 80** | **10 50** | **12 50** | **16 00** |

Loose



**Swivel Base, Reversible Pipe Jaws, Cut and Milled from Best Quality Steel.**

Japanned Cast Iron Body; Welded; Steel Faced Parallel Jaws; Polished Steel Screw and Sliding Handle; Polished Jaws and Slide.

### STANDARD COMBINATION PIPE VISES

| Nos | 401 | 402 | 403 |
|---|---|---|---|
| Width of Jaws, Inches | 3½ | 4½ | 5 |
| Takes Pipe, Inches | ⅛ to 2½ | ⅛ to 3 | ⅛ to |
| Weight Each, Lbs | 44 | 65 | 1104 |
| Each | $12 00 | 16 50 | 22 00 |
| | **11 00** | **15 50** | **20 00** |

Loose

## BOLT CLIPPERS

### EASY

Japanned Malleable Iron Handles; Tempered Steel Detachable Jaws; Compound Lever Action; Rubber Buffers; Adjusted by Use of Steel Shim Plates Sent with Each Pair.

Each

**No. 1**—Length 24 inches; Cuts Bolts up to ⅜ inch; Weight 4½ lbs . **$4 60**

**No. 2**—Length 30 inches; Cuts Bolts up to ½ inch; Weight 7½ lbs . **7 00**

One Set of Shims and One Wrench Sent with Each Clipper

### NEW EASY

Japanned Malleable Iron Handles; Tempered Steel Detachable Jaws; Compound Lever Action; Rubber Buffers; Adjusted by Set Screw on Each Side.

Each

**No. 3**—Length 36 inches; Cuts Bolts up to ⅝ inch; Weight 12 lbs . . **$9.80**

Loose

## BORAX

Used by Iron and Metal Workers for Welding; also Used for Toilet, Laundry, Medicinal and Preservative Purposes; it is One of the Best Welding Products Known.

Per Pound

**No. 2**—Refined Lump; Crystallized; in Barrels Containing About 350 lbs. **$0 18**

Sold in Bulk as Desired

## HAND VISES

### *DIAMOND EDGE

For Jewelers, Tool Makers and Machinists.

Forged Steel, Natural Finish Head; Polished, Hardened Jaws; Hardwood Handle; Brass Ferrule; Jaws Work on Parallel Lines.

Per Dozen

**No. D20**—Length 6 inches; Width of Jaws 1¼ inches; Opens ¾ inch; Weight per Dozen 6 lbs. . . . . **$10 00**

Half Dozen in a Box

## ANVILS

### *BLACK PRINCE

**Wrought Iron Body; Tool Steel Face**

Body is Solid Forged in Two Pieces, Welded at the Waist, the Face is One Solid Piece of Special High Grade Tool Steel, Welded to the Body, Carefully Ground Smooth and Polished; Guaranteed for One Year Against Defects of Material or Manufacture.

**Features.** Long, Perfectly Shaped Horn and Heel; Great Area and Spread of Base, Giving Steadiness when Working at End of Horn. Special Temper of Edges to Prevent Chipping. Hardie and Pritchel Holes and Other Mechanical Details of Exact Accuracy.

**We Charge for Actual Weight of Anvils.**

| Nos. App.Wt.,Lbs) | +35 | +40 | +45 | +50 | +55 | +60 |
|---|---|---|---|---|---|---|
| Range of Wts., Lbs | 30 to 37 | 38 to 40 | 41 to 45 | 46 to 50 | 51 to 55 | 56 to 60 |
| Per Pound | $0 44 | 38 | 38 | 36 | .36 | 34 |
| | **.40** | **.34** | **.34** | **32** | **32** | **.30** |

| Nos. App. Wt., Lbs.) | +65 | +70 | +75 | 80 | 85 |
|---|---|---|---|---|---|
| Range of Weights, Lbs. | 61 to 65 | 66 to 70 | 71 to 75 | 76 to 80 | 81 to 78 |
| Per Pound | $0 34 | 33 | 33 | 30 | 30 |
| | **.30** | **28** | **28** | **.26** | **28** |

| Nos. (App. Wt., Lbs.) | 90 | 100 | 125 | 150 |
|---|---|---|---|---|
| Range of Weights, Lbs | 88 to 95 | 98 to 110 | 115 to 130 | 135 to 160 |
| Per Pound, All Sizes | | | | 24 |
| **Nos. (App. Wt., Lbs.)** | **175** | **200** | **225** | **250** |
| Range of Weights, Lbs | 165 to 185 | 190 to 210 | 215 to 235 | 240 to 275 |
| Per Pound, All Sizes | | | | 24 |
| **Nos. (App. Wt., Lbs.)** | | **300** | **350** | **400** |
| Range of Weights, Lbs. | | 280 to 325 | 330 to 375 | 380 to 425 |
| Per Pound, All Sizes | | | | 24 |

Wrapped in Burlap

## WELDING COMPOUND

A Perfect Welding Compound; Welds Iron and Steel at Low Heat; Welds Iron to Iron, Steel to Steel and Iron to Steel.

Per Pound

**No. 1**—In 1 lb. Tin Cans . . . . . **$0.25**

**No. 5**—In 5 lb. Wood Boxes . . . . . **.22**

Sold Only in Full Packages

**Items Marked + Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Columbus, Ohio.**

# Base Ball Uniforms

**Our uniforms are made of the finest flannels we can buy, and are thoroughly shrunken before being made up.**

**We pride ourselves on the careful, thorough and perfect manner in which all uniforms are finished and guarantee good results. The hose, caps and belts conform in quality with each grade of suit or uniform, and we offer a large variety of styles and colors sufficient to please all purchasers.**

### 312. League Uniform.

Material guaranteed full 8 ounces in pants. Shirt a little lighter but of the same quality Used largely by League and professional clubs. Colors, white, Bristol, Shaker, Yale, and steel gray, black, maroon, royal blue old gold, navy blue, brown and green.

| | |
|---|---|
| Per suit | $29 50 |
| Shirt, any style | 12 00 |
| Pants, any style | 11 00 |
| Cap, best quality, any style | 2 00 |
| Hose, best quality of worsted | 3 00 |
| Belt, worsted web or all leather | 1 50 |
| | $29 50 |

**Detachable sleeves and striped hose with this uniform, no extra charge.**

### 313. Professional Uniform.

Pants full 6 ounces. Shirt of a little lighter weight, but of same quality Colors, white, Bristol, Shaker, Yale, and steel-gray, black, maroon, royal blue, old gold, navy blue, brown and green

| | |
|---|---|
| Per suit | $22 50 |
| Shirt, any style | 9 00 |
| Pants, any style | 9 00 |
| Cap, any style | 1 50 |
| Hose, worsted, any color | 2 00 |
| Belt, leather or worsted | 1 00 |
| | $22 50 |

**Detachable sleeves and striped hose with this uniform, no extra charge.**

### 314. Collegiate Uniform

Made of the same grade of material as our higher priced uniforms but of a little lighter weight. A very serviceable outfit.

Colors, White, Bristol, Yale, Shaker, and steel gray, black, maroon, navy blue and green

| | |
|---|---|
| Per suit | $18 00 |
| Shirt, any style | 7 50 |
| Pants, any style | 7 00 |
| Cap, any style | 1 50 |
| Hose, wool | 1 50 |
| Belt, worsted | 50 |
| | $18 00 |

**Detachable sleeves and striped hose with this uniform, no extra charge.**

### 315. High School Uniform.

Made of good quality medium weight flannel, well finished. A fine outfit for amateur clubs.

Colors, White, Shaker, steel, and Bristol gray, maroon, navy, black and brown.

| | |
|---|---|
| Per suit | $13 00 |
| Shirt, any style | 5 20 |
| Pants, any style | 4 80 |
| Cap, any style | 1 00 |
| Hose, wool | 1 50 |
| Belt web | 50 |
| | $13 00 |

### 316. Amateur League.

Made of good quality and weight material, a very durable outfit at a very low price

Colors, gray, brown and blue mixed, khaki, navy, maroon and green.

| | |
|---|---|
| Per suit | $9 50 |
| Shirt, any style | 3 70 |
| Pants, any style | 3 50 |
| Cap, University, Boston or Chicago style, plain | 30 |
| Hose, heavy cotton | 1 00 |
| Belt, web | 50 |
| | $9 50 |

### 317. Winner Uniforms.

Strong, serviceable flannel made for base-ball use. The best men's suit made at the price.

Colors, Navy, Scarlet, White, Black, Light Gray and Dark Gray

| | |
|---|---|
| Per Suit | $8 50 |
| Shirt, any style | 3 20 |
| Pants, any style | 3 00 |
| Cap, University, Boston or Chicago style | 50 |
| Hose, heavy cotton | 1 00 |
| Belt, web | 50 |
| | $8 50 |

**Sample cards showing all colors and grades of cloth used in our uniforms, including measurement blank and tape measure will be furnished free on request.**

### 318. Boys' Favorite.

Made from a good strong material. Boy's sizes only. Our leader for the boys.

Colors, gray, navy blue, and maroon, black, white, brown, royal blue and scarlet

| | |
|---|---|
| Price, per suit | $7 50 |
| Shirt, any style | 3 20 |
| Pants, padded | 3 30 |
| Cap, University, Boston or Chicago style, plain | 50 |
| Hose, cotton | 50 |
| Belt, web | 50 |
| | $7 50 |

**Lettering on above suits, free of charge.**

**Detachable Sleeves or Striped Hose on Suits Numbered 315, 316, 317, 65 Cents Extra.**

# AIR COMPRESSORS

## BINKS, MOTOR DRIVEN

Eliminates all Labor Simply Connect to Light Socket and Turn on the Current; Will inflate the Largest Tire in a Few Seconds.

This Compressor is Enameled and Gold Striped, Has Solid Bronze Cylinder and Piston; Operated by 1/3 H. P. Motor, Compressor or Driving Compressor to 125 lbs. Pressure; Can be Regulated to Any Pressure Desired. Oil Extractor Prevents Oil from Entering Tires; Supplied with Lubricator and Spring Grease Cups; Valves of Special Construction and Will Last Indefinitely. Each

**No. BP1—Complete Compressor.** 110 Volts; Alternating Current 60 Cycle 1 Ph. Motor; 10 feet Tubing; 100 lb. Pressure Gauge; 20 feet Lamp Cord; Mounted on 30x12x2 inch Painted Platform, with Swivel Ball Bearing Casters Weight in Shipping Order 170 lb. **$120 00**

**✢No. BP1½—Same as No. BP1,** Excepting for Other than 110 Volt Alternating Current; Weight in Shipping Order 170 lbs. **$120 00**

**NOTE.—When Ordering Give Voltage and State Whether For Direct or Alternating Current.**

✢ No. BP2 Compressor, Complete with Platform and Trucks, but Without Motor or Wiring **70 00**

✢ No. BP3 Compressor Only; Including Gauge and Relief Valve (Motor, Platform, Hose or Wiring not Included) **60 00**

✢ No. BM4 Motor Only, 1/3 H. P. 60 Cycle **50 00**

**Motors Other than 60 Cycle take Special Price; Compressors with Motor Other than 60 Cycle take Special Price. Prices Upon Request.**

**NOTE When Ordering Give Voltage and State Whether for Direct or Alternating Current.**

## MILLER

**High Pressure**

This Pump is Cooled with a Fountain Oiling System; The Bearings and Valves are Extra Large. The Bore of the Cylinder is 3¼ inches with 5 inch Stroke, will Easily Compress Air to 300 lbs. Can be operated from Line Shaft or Motor. This Pump can be Used in Connection with an Air Tank. By Using them in Connection you have a Portable Outfit that can be Taken to Any Part of the Building or Out on the Sidewalk.

**Without Gauge** Each

✢ **No. M1A—Single Cylinder; One Fly Wheel; Shipping Weight 175 lbs** **$74 80**

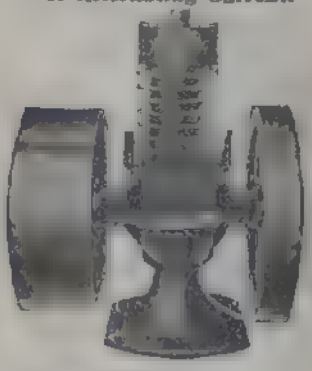
✢ **No. M2A—Single Cylinder, Tight and Loose Fly Wheels Shipping Weight 2[illegible] lbs** **88 00**

✢ **No. M3A—Double Cylinder, One Fly Wheel Shipping Weight 275 lbs.** **133 60**

✢ **No. M4A Double Cylinder, Tight and Loose Fly Wheels; Shipping Weight 375 lbs.** **149 60**

✢ **For Air Gauge fitted to any above Compressors, Add** **2 00**

## AU-TO



This Compressor was designed especially for Automobile Garages, Water Systems, Machine Shops and Farms, but is very suitable for use where a supply of not more than 60 Cubic Feet of Free Air per Minute is required and a Pressure not to exceed 300 lbs.

This is a Single Cylinder, Single Acting, Air-Cooled Machine using less than 1 H. P. The air is taken in at the Top away from the dust of the Floor.

The Machine is guaranteed to develop and maintain a pressure of at least 300 lbs. and will run constantly above 200 lbs without heating the Cylinder. The Air is circulated around the Cylinder for cooling the Machine by forcing it through the Tubes at the side of the Cylinder.

The Crank Shaft, Connecting Rod and Caps are Forged from Hot Quality Steel. The Bearings and Bushings are of the best quality of Bronze. The Valves are easily Accessible by removing Five Bolts, it not being necessary to even break Pipe Connections to remove them. They are of an exclusive Design, guided at both ends.

On the Shaft there is a Fly-Wheel weighing about 40 lbs., on the other side the Tight and Loose Pulley weighing about [illegible], thereby making the Machine well Balanced and causing both Bearings to wear alike.

The [illegible] Crank Shaft [illegible] eliminating the necessity of an Oil or Grease Cups. The Oil is replenished through the Pipe at the Base.

Each

**No. O** 3 inch Bore Cylinder; 4 inch Stroke; 14 inch Fly Wheels 13x2 inch Pulleys; Height from Floor to Top 21 inches; Floor Space 14x18 inches; Assembled Ready to Bolt to Floor; Weight 120 lbs. **$60.00**

# AIR TANKS

These Tanks are Made Especially for Air. They are Guaranteed Absolutely Air Tight, Every Tank to Twice the Working Pressure; Made of Heavy Steel and Painted; All Joints Brazed.

| | Working Pressure 100 lbs Each | Working Pressure 150 lbs. Each | Working Pressure 200 lbs. Each | Working Pressure 250 lbs. Each | Working Pressure 300 lbs. Each |
|---|---|---|---|---|---|
| 18 gals. 12x36 in | $13.50 | ✢ [illegible] | $15.75 | ✢ [illegible] | $18.25 |
| ✢ 30 gals. 12x60 in | 18 50 | [illegible] | 20.70 | ✢ [illegible] | 24 75 |
| ✢ 40 gals. 16x60 in | 20 00 | ✢ [illegible] | 24 75 | ✢ [illegible] | 30 00 |
| ✢ 50 gals. 16x60 in | 21 50 | ✢ [illegible] | 29 70 | ✢ [illegible] | 38 00 |
| ✢ 75 gals. 18x72 in | 38.50 | ✢ [illegible] | $47.10 | ✢ [illegible] | 63 00 |
| ✢100 gals. 22x80 in | 40 00 | ✢ [illegible] | 57 00 | ✢ [illegible] | 74 50 |
| | | | | ✢ [illegible] | 92 40 |
| | | | | ✢ [illegible] | $20 70 |
| | | | | ✢ [illegible] | 28 50 |
| | | | | ✢ [illegible] | 34 60 |
| | | | | [illegible] | 46 20 |
| | | | | ✢ [illegible] | 75.10 |
| | | | | ✢ [illegible] | 92 40 |
| | | | | ✢ [illegible] | 111 00 |

# ARMORED GARAGE HOSE

## CONTINENTAL

Made for Rough and Severe Garage Service; Specially Armored with Half Round Steel Wire to Stand Heavy Pressure and Prevent Injury in Service; will Withstand 2000 lbs. Pressure, and Outlast Several Pieces of Ordinary Hose. Made on our Heavy Air Hose Tube and Five Plies of Fine Fabric with High Grade Friction.

| ¼ Inch 5 Ply | Each |
|---|---|
| No. 12—12 feet Long; Weight 24 lbs | $8 00 |
| No. 25—25 feet Long; Weight 50 lbs | 12 00 |
| No. 50—50 feet Long; Weight 100 lbs | 24 00 |

**Do Not Cut Lengths**

## LIBERTY

Made of 5 plies of Good Quality Duck; High Grade Friction and a Good Tube; Wound with Half Round Steel Wire to Withstand a High Pressure and Protect Hose from Rough Usage

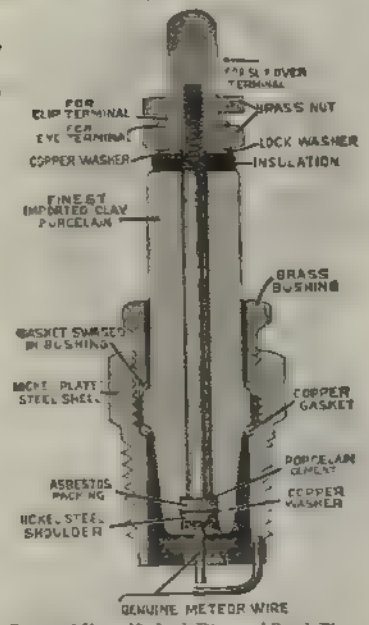
| ¼ Inch 5 Ply | Each |
|---|---|
| No 12L 12 feet Long; Weight 2[illegible] lbs | $4 00 |
| No 25L 25 feet Long, Weight [illegible] lbs | 8 00 |
| No 50L 50 feet Long; Weight 9[illegible] lbs | 16 00 |

**Do Not Cut Lengths**

**Items Marked ✢ Not Carried in Stock; Can Only Be Furnished By Shipping Direct From Factory**

"ORIGINATED BY US"

# SPARK PLUGS
## *NORLEIGH DIAMOND



Sectional View Norleigh Diamond Spark Plug.

No. ND12 Spark Plug.

No. ND78 Spark Plug.

No. NDM Spark Plug

Norleigh Diamond Spark Plugs Represent the Finest Material, Construction and Finest Ever Put into a Plug. They were Built and Designed after Extensive Scientific Research and from Practical Tests Covering a Period of Years. For Perfect Power, Reliability, Speed and Heat of Spark they Excel to Each. Will Work with Perfect Results in all Makes of Cars, Motor Boats, Gasoline Engines, etc. Norleigh Diamond Plugs have been Subjected to and Survived Heat and Oil Tests which we have Found No Others Able to Withstand and are as Nearly Indestructible and Trouble Proof as a Plug can be Made.

**Porcelains** Made of Imported Clay in the Finest Quality Obtainable, Entirely Free from Flaws and Guaranteed Perfect.

**Sparking Points** Made of Genuine Meteor Wire, the Finest and Best Wire for the Purpose Manufactured, and Produce a Faster and Hotter Spark than any other Construction.

**Core Construction** The Method of Building the Core of the Norleigh Diamond Spark Plug is its Strongest Feature and is Superior to all Other Methods of Construction. Contact Seal Swaged into Petticoat Copper Washer which Rests the Porcelain Core upon two Asbestos Packing Rings with Mica Plate Ring of Wire Insulation then around the Entire Joint is Poured a Porcelain Cement, which when Dry this Cement Becomes as Hard as the Porcelain Itself. Thus an Impregnable Wall that Absolutely Prevents Gases, Oil and Moisture from Entering Between the Porcelain and Shell or Terminal and Thereby Insures its Life and Efficiency are Greatly Increased. Between the Inside and Porcelain is Left a Small Channel. This Allows for Expansion and Contraction and Eliminates Breakage of Porcelains from this Cause.

**Easy to Clean** Norleigh Diamond Plugs can be Cleaned of all Soot in a Few Minutes. Unscrew the Brass Nut and the Entire Center Core Lifts out without Removing the Plug Body from the Cylinder. Wipe out Inner Surface of Center Core in Cast Iron Shell. Soot will Slip Away at Least Effort on Your Part. This Method of Removing Center Core and the Ease of Cleaning will be Fully Appreciated when put to Actual Test by the Operator.

**General Construction** Study Carefully the Sectional Cut Shown above and you will then Realize the Superiority of the Norleigh Diamond Construction. The Brass Nut Screwing on the Base Forces the Porcelain Down on a Copper Gasket and Makes Gas Tight. Note Particularly that the Porcelain has a Retaining Base where it Meets the Gasket, thus Allows it to be Forced with a Breaking or Pull Crushes are Eliminated, with Contact to Drive Fit and a Square Faced Shoulder. All Threads are Cut True and Protected Perfectly to Each Other with Exactness. The General Outline, Compactness and Genteel Appearance of Norleigh Diamond Plugs Give them a Look of Superior Elegance that is on a Par with their Superior Material and Construction.

**Terminals** The Terminals of all Styles except the Metric, is of a Combination Type that will enable the user to use any style Connector. Eye, Slip Over and Clip Terminals are Styles. The Metric Style does not have the extended top as it is used mostly on Motorcycles which do not allow the extra length.

**Packing** Norleigh Diamond Plugs are Packed in Individual Boxes with Cardboard Thread Protectors, and Like all Norleigh Diamond Packages, these Boxes are Made from Heavy Cardboard, Attractively Labeled with Gold, Red and Black Labels. This Package is Distinctive and will not be Found on any Other Brand of Spark Plug.

| | Each |
|---|---|
| **No. ND12**—½ inch; U. S. Standard Pipe Thread; Weight 3 ozs. (Copper Gasket Not Necessary) | $0.80 |
| **No. ND78**—⅞ inch; A. L. A. M. Complete with Copper Gasket; Weight 3 ozs. | .80 |
| **No. NDM**—Metric; Complete with Copper Gasket; Weight 3 ozs. **Used Largely on Motorcycles** | .80 |
| **No. NDP -Extra Porcelains**; Mounted Complete with Center Core Ready to Insert in Plugs, Weight 1 oz. | .35 |

One in a Box

No. BD12

## H. M. S. BULLDOG SPARK PLUGS

This Plug Corrects the Faults and Weaknesses in Others and Presents new Features Making for Greater Strength and Reliability. The Form of Porcelain Gives Heretofore Unknown Strength; the Clay from which it is Made is Imported and the Best that can be Obtained. Has Two Gaskets Making up the Body Joint; the Seat being at the Lower End of Body so that the Expansion and Contraction of Both Porcelain and all Metal Parts are Practically in One Direction, Longitudinally, thereby Reducing the Strain to the Minimum Limit. The Terminals, Forming the Gap, are of Material of the Most Lasting and Efficient Quality ever Used for the Purpose. Is Good Light and for Steady and Satisfactory Wearing Qualities has no Superior. The Porcelain and Terminals are Assembled as One Unit and can be Instantly Removed from the Body of Plug without Removing the Motor from the Engine, by Simply Unscrewing the Large Octagon Nut that Secures the Terminal. The Electrode is so Made that a Spark of Great Intensity and Speed is Obtained. With Sparking Points Completely Immersed in Oil it will Spark Indefinitely without a Miss. H. M. S. Plugs will Withstand the Most Severe Heat and Oil Tests.

| | Each |
|---|---|
| **No. BD12**—½ inch; U. S. Standard Pipe Thread; Weight 4 ozs. | $0.55 |
| **No. BD78**—⅞ inch; A. L. A. M. with Copper Gasket; Weight 4 ozs. | .55 |
| **No. BDM**—Metric; with Copper Gasket; Weight 4 ozs. | .55 |

LONG STYLE

Same as Regular Bull Dog only has ½ inch Extension on Base, some few Cars require an extra long Base and this Plug is made for such Cars.

| | Each |
|---|---|
| **No. BDL12**—½ inch; U. S. Standard Pipe Thread; Weight 4 ozs. | $0.55 |
| **No. BDL78**—⅞ inch; A. L. A. M. with Copper Gasket; Weight 4 ozs. | .55 |

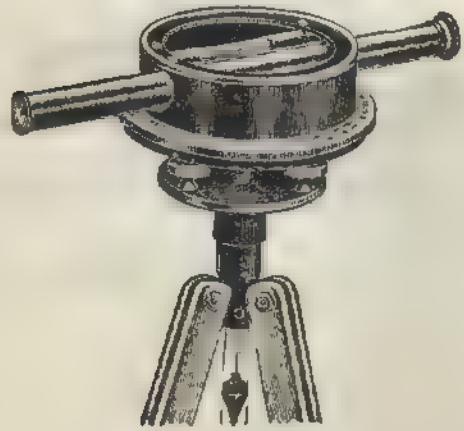
EXTRA PORCELAINS

| | Each |
|---|---|
| **No. BDP—Extra Porcelains**; Mounted Complete with Center Core, Ready to Insert in Plugs; Weight 1 oz. | $0.35 |

One in a Box

No 78DB

## FARM LEVELS



BOSTROM

Face plate and turret made of cast iron; brass telescope, achromatic, gives a clear field and contains a system of magnifying glasses making it possible to accurately read the target over 400 yards away; has circle of degrees for obtaining angles, spirit bubble and all necessary means of adjustment; complete with varnished yellow pine tripod, plumb bob, graduated rod and target; meets every requirement of farmer or ranchman for all kinds of drainage work, terracing, road building, fence building, grading and setting out orchards.

| | Each |
|---|---|
| No. F—Weight 15 lbs | $25.00 |

Packed, level in wood box; tripod and target rod wrapped in paper.

## LEVEL SIGHTS

No. 1 No. 2

Cast iron frame, polished and blued finish; steel set screws, can be attached to any level; for leveling from one given point to another some distance away; easily detached when not in use.

| | Doz. |
|---|---|
| No. 1—For wood levels; weight per dozen pairs 3 lbs | $12.00 |
| No. 2—For iron levels; weight per dozen 3 lbs | 12 00 |

Packed, one pair in box

## PLUMB BOBS

Nos. 1, 1¼ and 1½

No. 16

| | Doz |
|---|---|
| No. 1—Weight 9½ oz.; black japanned iron top and body, one piece, diameter 1¾ inches; length 2¾ inches; weight per dozen 7½ lbs. | $ 1.60 |
| No. 1¼—Weight 1½ lbs; diameter 1⅞ inches; length 3¾ inches; otherwise same as No. 1; weight per dozen 14 lbs. | 2.90 |
| No. 1½—Weight 1½ lbs; diameter 2 inches; length 4½ inches, otherwise same as No. 1; weight per dozen 18½ lbs. | 3.60 |
| No. 16—Weight 8 oz.; solid hexagon steel body, with hardened, sharpened point, full polished; diameter ⅞ inch; length 3¾ inches; weight per dozen 6½ lbs. | 4.00 |

Packed, No. 1, one dozen; balance one-half dozen in box.

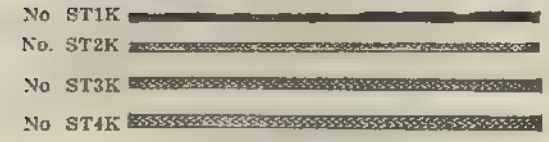
No. 5

No. 2

| | Doz |
|---|---|
| No. 5—Weight 2¾ lbs.; black japanned top and body, one piece, diameter 2½ inches; length 4½ inches; weight per dozen 33½ lbs. | $ 4.20 |
| No. 2—Weight 6½ oz.; brass, with hardened steel points; knurled head screw; diameter 1⅛ inches; length 3 inches; weight per dozen 5 lbs. | 6.50 |

Packed, one-half dozen in box.

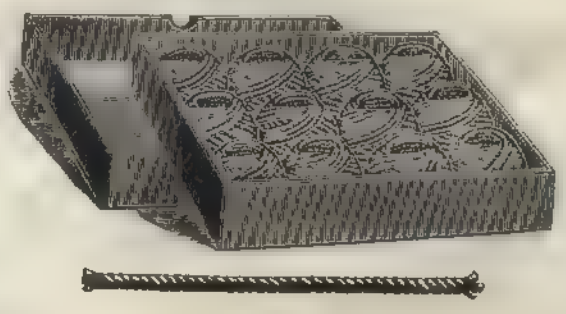
## CHALK LINES




Braided white cotton; in 20-foot hanks.

| Nos. | ST1K | ST2K | ST3K | ST4K |
|---|---|---|---|---|
| Weight per gross hanks, lbs. | 2½ | 3½ | 4 | 4½ |
| Dozen hanks | $0.40 | .46 | .44 | .48 |

Packed, one dozen hanks connected; one-half gross hanks in box.



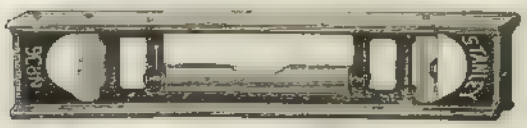
Twisted white cotton; in balls.

| Nos. | ST03 | ST05 |
|---|---|---|
| Length, feet | 50 | 100 |
| Weight per gross, lbs. | 10½ | 19 |
| Dozen | $0 84 | 1.50 |

Packed, one dozen balls in box.

# PLUMBS AND LEVELS

## METALLIC



STANLEY

Japanned cast iron frame with nickel plated edges, tops and bottoms milled and ground; glasses so set that either surface may be used to level or plumb.

| No. 36—Length, inches | 6 | 9 | 12 | 18 | 24 |
|---|---|---|---|---|---|
| Weight per dozen, lbs | 12 | 15 | 24 | 36 | 51 |
| Dozen | $18 50 | 22.00 | 26.50 | 32.00 | 36.50 |

Packed, one in box.

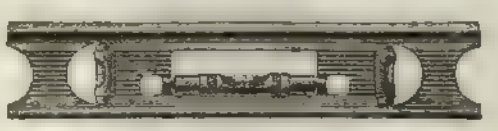
MACHINISTS'

Polished rosewood; one piece stock; square brass top plate, brass lipped side views; brass plumb ring; one piece, heavy brass bound ends and edges.

Doz

No. 98—Length 12 inches; weight per dozen 26 lbs.....$44.50

Packed, one in box.

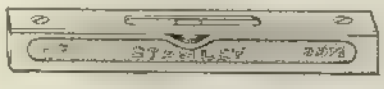


STANLEY

Nickel plated cast iron frame, tops and bottoms milled and ground; ground glasses encased in nickel plated, adjustable steel case.

| No. 37—Length, inches | 12 | 18 | 24 |
|---|---|---|---|
| Weight per dozen, lbs | 24 | 39 | 51 |
| Dozen | $40.00 | 48.00 | 57.00 |

Packed, one in box.



LEVEL ONLY

Nickel plated cast iron frame; nickel plated steel top, screwed to frame; side views; proved glass set solid in plaster.

Doz.

No. 39½—Length 6 inches; weight per dozen 7 lbs.....$ 8.50

Packed, one-half dozen in box.

## POCKET LEVELS

No. 31 No. 34V

Nickel plated steel case, hexagon shape; proved glass.

| No. 31—Length, inches | 2½ | 3½ |
|---|---|---|
| Weight per dozen, lb. | ¾ | 1 |
| Dozen | $5.00 | 7.00 |

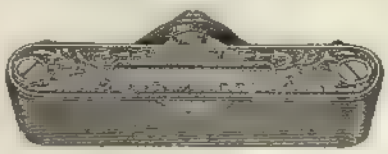
Packed, one-half dozen in box.

ECLIPSE

Cast iron base, steel case, full nickel plated; ground glass fitted in metal case; outer shell fitted over case can be turned to completely protect glass; adjustable by screws.

| No. 34V—Length, inches | 6 | 8 |
|---|---|---|
| Weight per dozen, lbs | 9 | 13½ |
| Dozen | $20.00 | 27.00 |

Packed, one in box.



STRAIGHT EDGE

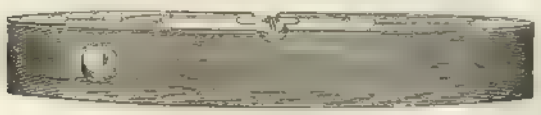
Japanned cast iron; can be attached to any straight edge or square.

Doz

No. 40—Japanned top plate; length 3½ inches; weight per dozen 2 lbs.....$ 2.00

No. 41—Brass top plate; length 3½ inches; weight per dozen 2 lbs..... 2.30

Packed, one dozen in box



TORPEDO

Highly polished rosewood; tapering ends; tips, top and bottom inlaid with brass; well protected glasses; shape makes it as convenient to slip into pocket as a lead pencil.

Doz

No. 600—Length 9 inches; 1¼ inches deep, ⅝ inch thick at center; weight per dozen 3½ lbs.....$16.00

Packed, one-half dozen in box

## LINE LEVELS

LEVEL ONLY

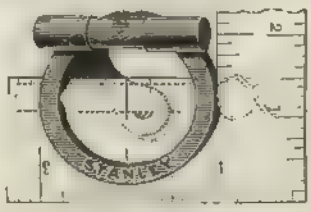
Stevens line; aluminum case; bronze end caps and hooks, for use on chalk lines.

Doz.

No. SLL—Length 3½ inches; weight per dozen 1 lb..... $ 8.00

Packed, one in carton, one dozen in box.

## BIT AND SQUARE LEVELS



STANLEY

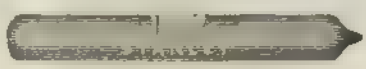
Cast brass frame and set screw; three pairs of V slots on back edge; to fit auger bits and regular steel squares.

Doz.

No. 44—Width 1½ inches; weight per dozen 2 lbs.....$ 4.70

Packed, one in box.

## LEVEL GLASSES



No. SP

Extra thick tubing; marked at crowning point by two indelible lines.

WYETH ASSORTMENT Asst.

No. WP—Consists of one dozen glasses assorted two each 1¾, 3 and 3½ and three each 2 and 2½ inches long; weight per assortment ½ lb. ..... $ 1 30

Packed, one assortment in wood box

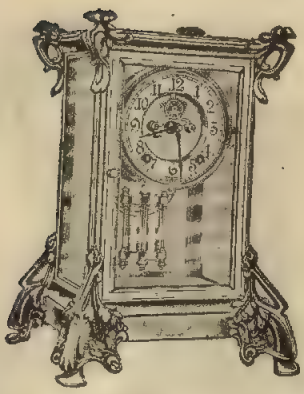
STANLEY

| No. SP—Length, inches | 1¾ | 2 | 2½ | 3 | 3½ |
|---|---|---|---|---|---|
| Weight per dozen, lbs | ⅞ | ⅞ | 1 | 1 | 1 |
| Dozen | $1 08 | 1.10 | 1.20 | 1.30 | 1.40 |

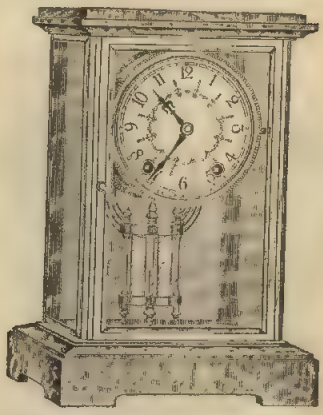
Packed, one dozen in box.

# Fancy Gold Plated Mantel Clocks

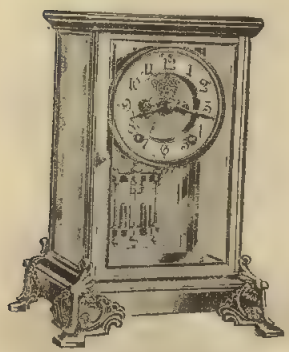
Fitted with Fine American Made Movements, Guaranteed in All Respects.



**10081**
Height 12¼ inches, Width 9 inches, Porcelain Dial 4 inches, Visible Escapement, Metal Case with Bevel Top Corner Plate, Glass Front, Sides and Back,
Finish, Oriental Gold Plate or French Bronze,
Movement, 8-Day, Half-hour Strike, Cathedral Gong.
Price **$5 65** each.



**10082**
Height 17 inches, Width 7½ inches, Porcelain Dial 4 inches, Plain or Visible Escapement, Heavy Brass Case with Beveled French Plate Glass Front, Sides and Back,
Finish, Gold Plated with Imitated Brazilian Onyx Top and Bottom
Movement, 8 Day, Half Hour Strike, Cathedral Gong,
Price **$15 75** each.



**10083**
Height 11 inches, Width 8 inches,
Porcelain Dial 3 inches, Visible Escapement,
Metal Case with Bevel Plate Glass Front, Sides and Back,
Finish, Oriental Gold Plate or French Bronze,
Movement, 8 Day, Half Hour Strike, Cathedral Gong,
Price **$12 75** each.

**10084**
Rich Gold Plated Case Glass Columns,
8 Day Half-hour Strike, Gong,
3½ inch Ivory Dial, Ivory Center, Visible Escapement,
Cast Gilt Bezel, Beveled Glass Front, Sides and Back
Height 13½ inches, Width 9 inches.
**$69 35** each.

A Satisfied Customer Is a Regular Customer. Are You One of the Regulars?

"THE HOUSE OF QUALITY"

# Fine Solid Gold Brooches PRICES EACH.

Genuine brown shell cameo, English finish mounting, engraved. No. 8569 ..... $34.20

Genuine pink and white shell cameo, English finish mounting engraved. No. 8570 ..... $34.55

Genuine shell cameo, polished and chased, green gold mountings, 12 half pearls. No. 8571 ..... $26.30

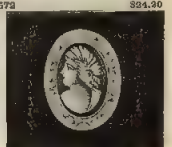
Genuine pink shell cameo, English finish, mounting engraved. No. 8572 ..... $24.30

Genuine pink shell cameo, English finish, 4 baroque, 12 half pearls. No. 8573 ..... $43.00

Genuine coral cameo, polished, engraved mounting. No. 8574 ..... $23.30

Genuine pink and white shell cameo, polished, English finish, engraved mounting. No. 8575 ..... $32.00

Genuine shell cameo, polished mounting. No. 8576 ..... $22.00

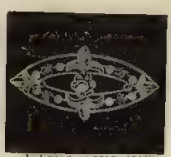


Genuine shell cameo, English finish, mounting hand engraved. No. 8577 ..... $15.40

Polished, 57 half pearls. No. 8578 ..... $34.85

Rose gold finish, 26 real half pearls. No. 8579 ..... $23.95

Polished, 1 whole pearl, 60 half pearls. No. 8580 ..... $21.55



Polished, chased, green gold leaves, 4 sapphires, 9 pearls. No. 8581 ..... $18.80

Polished, chased, green gold wreath, 7 baroque pearls. No. 8582 ..... $19.95

Polished rose diamond, 6 half pearls. No. 8583 ..... $9.90

Polished, English finish, 1 pearl. No. 8584 ..... $3.90

Solid gold, English finish, blue enameled, 4 half pearls. No. 8585 ..... $13.45

Solid gold, polished finish, 3 amethysts, 3 baroque pearls. No. 8586 ..... $17.95

Solid gold, extra heavy English finish, hand engraved. No. 8587 ..... $9.60

Polished, chased, green leaves 8 brilliants, 1 ruby. No. 8588 ..... $7.20

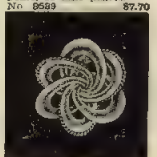
Polished, chased, green gold leaves, 1 whole pearl, 11 half pearls. No. 8589 ..... $7.70

Polished chased, green gold leaves, 4 half pearls. No. 8590 ..... $7.30

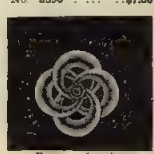
Roman and rose gold finish, 1 pearl. No. 8591 ..... $5.50

Rose gold finish, 1 garnet. No. 8592 ..... $6.50

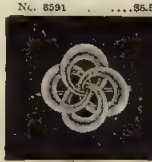
Roman, chased, 1 opal. No. 8593 ..... $7.05



Roman. No. 8594 ..... $6.30



Roman, 1 ruby. No. 8595 ..... $4.30



Roman. No. 8596 ..... $3.70

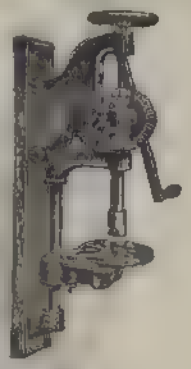
Roman. No. 8597 ..... $3.50

# POST DRILLS

## BUFFALO UPRIGHT; PLAIN BEARINGS

Oil Finished Cast Iron Frame, Gearing, Wheels, Swing Table and Support, Polished Steel Drill Spindle, Table Post, Steel Arm or Chuck, Short Steel Swing Table Wrench, Drop Handle Down Motion Levers with Metal Tips, All Working Parts Fitted and Reamed in the Steel Metal Bushings, the Latter Being Easily Renewed When Worn. Rack Feed, Belted to Plain Cast Upright Back Board

| | Each |
|---|---|
| **No. 150**—Drills Holes Up to 1 inch to the Center of a 12 inch Circle; Takes Drills with Round Shank. Diameter of Spindle 1 inches; Diameter of Table Post 1 inches; Diameter of Table 7 inches; Run of Table 12 inches; Run of Feed 3 inches; Length of Crank (Not Adjustable) 10 inches; Size of Back Board 33x4 inches; Weight 65 lbs. | $13 00 7 50 |
| **No. 149**—Drills Holes Up to ¾ inch to the Center of a 12 inch Circle; Takes Drills with ½ inch Straight Shank. Diameter of Spindle 1 inches; Diameter of Table Post 1 inches; Diameter of Table 7 inches; Run of Table 12 inches; Run of Feed 3 inches; Length of Crank (Not Adjustable) 10 inches; Size of Back Board 33x4 inches; Weight 60 lbs. | $10 75 7 00 |



One in a Crate

## BLOWERS

### BUFFALO

**Give the Strongest Blast with the Least Effort**

Buffalo No. 200T has Helical Cut Gears Bearings Bushed and Reamed in the Steel Metal of the Dust and Draft Proof Gear Case, to Insure Permanent Alignment.

High Speed Gears are Balanced at End Thrust on Finest Adjustable Ball Bearings. Adjustable Intermediate Gear Insures Perfect Mesh between Gears of Wear.

Fan Case has Small Swivel Handles Arranged with Least Resistance, Shortest Air Straight Out from the Blades. Cuts Down Labor Way, Forward for Strong, Backward for Light Blast. This Blower and Large Fan Case will give an Intense Heat, Sufficient for the Very Heaviest Blacksmith Work.

| | Each |
|---|---|
| ✠**No. 200T/14**—**Ball Bearing; Diameter of Fan Case 14 inches;** Steel Shaft, Plain Bushings, Cast Iron Gear and Fan Cases, Four Tubular Steel, Bent Legs, Height Over All 44 inches; Height of Gear Case 13 inches; Spread of Legs at Base 24 inches; 5 inch Counter-balanced Crank, 30 inch Sweep; Complete with Valve Tuyere Iron, 3 inch Galvanized Bent Connecting Pipe; Weight 140 lbs. | $35 00 |
| ✠**No. 200NT 14 Without Tuyere Iron** or Connecting Pipe; Weight 85 lbs., 14 inch Fan Case. | 24 00 |
| **No. 200T**—Same as No. 200NT/14 Above, but Having 12 inch Fan Case. | 33 00 |
| **No. 200NT 12 inch Fan without Tuyere Iron** or Connecting Pipe; Weight 85 lbs.; 12 inch Fan Case. | 32 50 |
| | Loose |

Buffalo No. 99T has Fan Spindle Driven by a Helical Spur Gear Cut and Finished by Special Machinery, Affording Smooth and Noiseless Running. The Blower is Adjustable as to Height for Simple Gears, Running in Oil in a Dust Proof Case, Speed Up the Fan Wheel to Give the Strongest Possible Blast, with the Greatest Ease of Operation.

Crank Movement, Right or Left Hand with 5 inch Counterbalanced Crank, 20 inch Sweep.

| | Each |
|---|---|
| **No. 99T** Deep Cut, Cast, Triple Gear, Steel Shaft, Plain Bushing; Cast Iron Gear and Fan Cases, Three Tubular Steel, Bent Legs, Height Over All, Adjustable 38 to 44 inches; Diameter of Fan Case 12 inches; Spread of Legs at Base 23 inches; Complete with No. HH Tuyere Iron and 3 inch Galvanized Blast Connecting Pipe; Weight 100 lbs. | $33 50 35 00 |
| **No. 99NT Without Tuyere Iron** or Connecting Pipe, Weight 70 lbs. | 24 25 33 00 |
| | Loose |

## FORGES

### LANCASTER

Cast Iron Fire Pan, Heavy Pressed Steel Hood or Shield, Tubular Steel, Braced Legs; Cast Iron Gearing; Blower and Fan Case Hardwood Swivel Lever, Direct Strong Blast into Tuyere Iron is Produced by a Slow Lever Motion, the Legs and Gearing are Strong Steel Braces, the Gearing is Practically Noiseless, the Rotary Blower Motion is Simple and Positive and Never Gets Out of Order.

| | Each |
|---|---|
| **No. 999—With Open Hood and Water Tank;** Fire Pan 30 inches, Height to Top of Pan 30 inches, Height Over All 50 inches, Diameter of Fan Case 12 inches, Spread of Legs 30x27 inches, Wt. 175 lbs. | $30 00 35 00 |

| | Each |
|---|---|
| **No. 150 With Shield;** Bowl 18 inches, Height to Top of Bowl 30 inches, Height Over All 40 inches, Spread of Legs 18x18 inches, Wt. 65 lbs. | $10 00 11 00 |
| | Loose |

| | Each |
|---|---|
| **No. 100—With Shield;** Bowl 23 inches, Height to Top of Bowl 30 inches, Height Over All 41 inches, Spread of Legs 20x20 inches, Weight 80 lbs. | $12 00 |

### BUFFALO

BENCH

Hand Gear Wheel Action; Cast Iron Bowl; Pressed Steel Shield and Concave Bent Legs; Cast Gear Wheel, Blower and Fan Case; Painted Steel Blue.

| | Each |
|---|---|
| **No. 7**—Diameter of Bowl 15 inches; Height to Top of Bowl 15 inches, Height Over All 25 inches, Diameter of Large Wheel 12 inches; Diameter of Fan 6 inches, Weight About 40 lbs. | $13 00 16 00 |

**Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Buffalo, N. Y.**

# GRINDSTONES

## *DIAMOND EDGE MOUNTED

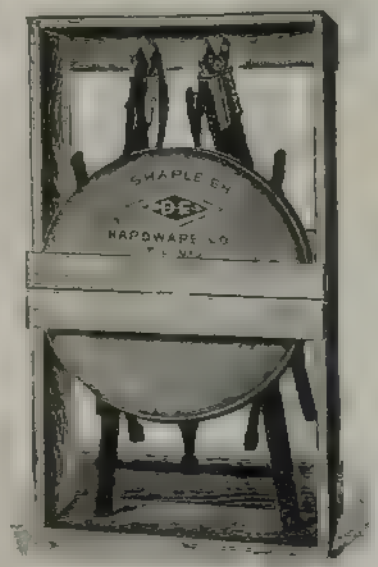
**Ball Bearing; Tubular Steel Frame; Rich Vermilion Enameled Frame; Black Japanned Gearing and Castings; Genuine Berea Stone.**

Tubular Steel Folding Frame; Double Treadle; **Ball Bearings** on Each End of Shaft; **Ball Bearing** Treadle Connections; Long Heavy Malleable Iron Tube Sockets; Malleable Iron Castings; Constructed of 1¼ and 1 1-16 inch Steel Tubing, Securely Braced. There are No Cotter Pins or Loose Parts, all Bolts and Rods Being Threaded so as to Insure a Permanent Rigidity; Fitted with Patent Detachable **Ball Bearing** Fixtures and **Genuine Berea** Grindstone; Has Large Comfortable Steel Seat, Clothes Protector and Water Can.

| | Each |
|---|---|
| **No. DE25**—Weight of Stone 50 to 60 lbs.; 20 to 22 inch Diameter, 1¾ to 2¼ inches Thick; Height of Frame to Seat 30 inches; Length Over All 36 inches; Weight Crated About 100 lbs. | **$8 90** |

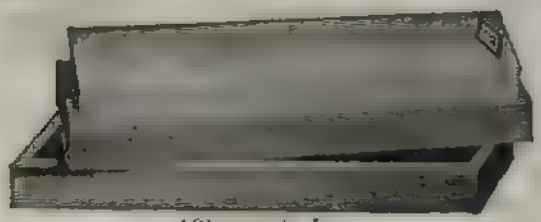
One in a Crate Knocked Down

**Shipped Knocked Down and Crated in a Strong Square Package, Easily Handled and Takes Up But Little Space; the Frame Folds Intact and Can be Set Up by the Placing of Only One Bolt.**




Knocked Down and Crated for Shipment.

# OIL STONES



### *DIAMOND EDGE

Best Grade of Lily White, Wet-ta Grit Stone; Selected Especially for its Quick Sharpening Qualities. Each Stone is Perfectly White and Carefully Finished; of Uniform Grit Throughout; Free from Hard or Soft Spots or Streaks.

**MOUNTED**

In Cherry Finished and Varnished Hardwood Lock Corner Box

| | Each |
|---|---|
| **No. DEM6**—Size 6x2 inch Stone; Weight per Dozen 13 lbs... | **$1 10** |
| **No. DEM8**—Size 8x2 inch Stone; Weight per Dozen 18 lbs | **1 36** |

One Dozen in a Slide Cover Box

**NOT MOUNTED**

In Cardboard Carton

| | Each |
|---|---|
| **No. DE6**—Size 6x2x⅞ inch; Weight per Dozen 12 lbs.. | **$1 00** |
| **No. DE8**—Size 8x2x1 inch, Weight per Dozen 15 lbs..... | **1 10** |

25 lbs. in a Box

### *SHAPLEIGH SPECIAL, FAST CUTTING

For Oil or Water

A Light Gray, Nicely Finished Stone of Soft, Coarse Grain; Cuts Rapidly and Imparts a Good Edge. Intended for Grinding Down Dull Tools or Sharpening those Intended for Coarse Work.

**MOUNTED**

| Cherry Stained, Locked Corner Boxes | Each |
|---|---|
| **No. 5**—Size 5x2 inches; Weight per Dozen 12 lbs..... | **$9.90** |
| **No. 7**—Size 7x2 inches; Weight per Dozen 16½ lbs. | **1.00** |

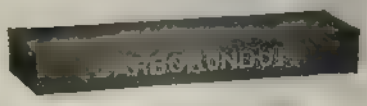
One Dozen in a Case

**NOT MOUNTED**

| Each Stone in a Cardboard Box | Each |
|---|---|
| **No. 6**—Size 6x2x1 inch, Weight per Dozen 12 lbs | **$0 30** |
| **No. 8**—Size 8x2x1 inch; Weight per Dozen 15 lbs | **34** |

25 lbs. in a Case

# CARBORUNDUM STONES



Carborundum Stones are Manufactured from Carborundum, a Chemical Combination of Carbon and Silicon, which Produces a Marvelous Abrasive. Made up of Small Sharp Crystals that are Just Brittle Enough to Break Slightly in Use, Giving at All Times Sharp Cutting Edges which will not Glaze or Fill. The Durability, Rapidity and Uniform Efficiency Give to Carborundum its Unquestioned Reputation of Being a Perfect Abrasive.

### SHARPENING STONES

Used Dry or with Water or Oil; Porous, and May be Tempered in their Cutting by Filling with Wax or Vaseline

| | Per Dozen | |
|---|---|---|
| **No. 115**—8x2x1 inch; FF, Fine; Weight Each 18 ozs | **$14 40** | 12 00 |
| **No. 116**—8x2x1 inch; 180, Medium; Weight Each 17 ozs.... | **11 55** | 9.60 |
| **No. 118**—8x2x¾ inch; FF, Fine; Weight Each 15 ozs | **11.55** | 9 60 |
| **No. 119**—8x2x¾ inch; 180, Medium; Weight Each 14 ozs... | **8.65** | 7 20 |
| **No. 121**—6x2x1 inch; FF, Fine; Weight Each 15 ozs | **11 55** | 9 60 |
| **No. 122**—6x2x1 inch, 180, Medium, Weight Each 14 ozs | **8.65** | 7 20 |
| **No. 123**—6x2x1 inch; 120, Coarse; Weight Each 14 ozs | **8 65** | 7.20 |
| **No. 124**—6x2x¾ inch; FF, Fine; Weight Each 9 ozs. | **8 65** | 7.20 |
| **No. 125**—6x2x¾ inch; 180, Medium; Weight Each 9 ozs.... | **6 50** | 5.40 |
| **No. 126**—6x2x¾ inch, 120, Coarse; Weight Each 9 ozs | **6 50** | 5 40 |
| **No. 130**—6x1½x½ inch, FF, Fine; Weight Each 5 ozs | **6 50** | 5 40 |
| **No. 131**—6x1½x½ inch; 180, Medium, Weight Each 5 ozs | **5.05** | 4 20 |
| **No. 132**—6x1½x½ inch; 120, Coarse; Weight Each 5 ozs.... | **5.05** | 4 20 |
| **No. 142**—4x1½x½ inch; FF, Fine, Weight Each 3 ozs | **5 80** | 4 80 |
| **No. 143**—4x1½x½ inch; 180, Medium; Weight Each 4 ozs.. | **4 35** | 3.60 |
| **No. 145**—4x1x¼ inch; FF, Fine; Weight Each 1 oz. | **3 60** | 3 00 |
| **No. 146**—4x1x¼ inch; Medium, Weight Each 1 oz | **3 90** | 2 40 |

Twelfth Dozen in a Carton

# LAMPS AND LANTERNS

CABIN LAMP

Fig. 1625

STIFF BRACKET LAMP

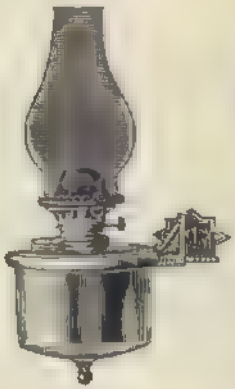


Fig. 1626

TRIANGLE WALL LAMP

Fig. 1627

## CABIN LAMPS Polished Brass

| Number | | | | | | | 2 |
|---|---|---|---|---|---|---|---|
| Price, complete, | regular | | | | each | 2 00 | 2 80 |
| " " | sidewind | | | | " | 2 [illegible] | [illegible] |
| " " | small | | | | " | | 2 25 |
| " " | side lift | | | | " | 2 70 | 3 00 |

## STIFF BRACKET LAMPS Polished Brass

| Protects | | | | | | inches | 5 |
|---|---|---|---|---|---|---|---|
| Height, with chimney and burner | | | | | | inches | 12 |
| Price, complete | | | | | | each | 4 00 |

Stiff bracket lamps have 10 inch reflector, fitted with No. 2 sun shade burner.

REGULAR

Fig. 1628

## TRIANGLE WALL LAMPS Japanned

| | | |
|---|---|---|
| Price, complete....per dozen | | 10.50 |

## ENGINEERS' LANTERNS

### Regular

| | | |
|---|---|---|
| Price, galvanized | each | 3 50 |
| " Brass | " | 20 00 |
| " " with bull's eye | " | 22 00 |

### Fancy

| | | |
|---|---|---|
| Price, polished brass | each | 30 00 |
| " With bull's eye | " | 30 00 |

FANCY

Fig. 1629

# LANTERNS, GLOBES AND CHIMNEYS

## COLD BLAST SEARCHLIGHT LANTERNS

No. 20

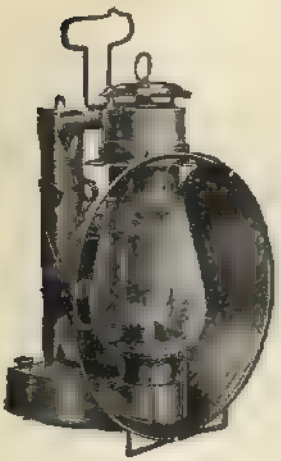


Fig. 1530

No. 40

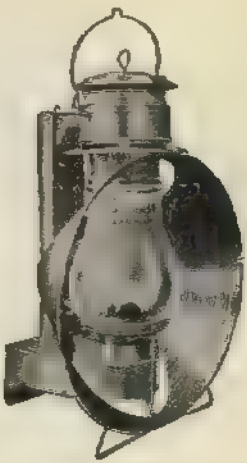


Fig. 1531

| Number | Globe Number | Burner Number | Wick Inches | Price Per Dozen: Extra Globe | Price Per Dozen: Bull's Eye Globe | Price Each |
|---|---|---|---|---|---|---|
| 20 | 0 C. B. | 2 C. B. | 1 -B | 23 50 | 36 00 | |
| 40 | 4 | 3 C. B. | 1½-D | | | 6 00 |

No. 20 is japanned. No. 40 is enameled green.

## LANTERN GLOBES

Price, No. 0 cold blast . . . . . per dozen
" " 0 " " bull's eye "
" " 0 " " ruby "
" " 2 " " "
" " 2 " " bull's eye "
" " 2 " " ruby "
" " 0 tubular "
" " 0 " bull's eye "
" " 0 " ruby "
" 9 street globes "
" " 12 pearl "
" " 72 " "
" " 20 searchlight "
" Best-evr "

## LAMP CHIMNEYS

Price, No. 1, bulge crimp . . . . . per dozen
" " 2, " " "
" " 1, 4 inch plain top "
" " 2, 6 " "
" " 1 4½ " oval "
" " 2, 6 " " "

# Fine Solid Gold Coral Cameos, Gents Set, Reconstructed Ruby and White Sapphire Rings.

Prices Each

Extra heavy mounting, genuine coral cameo, rose gold finish. Size, 5 to 8.
No. 6915 10k ..$31.90

Extra heavy mounting, genuine coral cameo, rose gold finish. Size, 5 to 8.
No. 6916 10k ..$29.90

Heavy mounting, genuine coral cameo, rose gold finish. Size, 5 to 8.
No. 6917 10k...$37.50

Extra heavy polished, English finish, pierced, genuine coral cameo. Size, 7 to 10½.
No. 6918 10k...$28.60

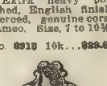
Extra heavy mounting, genuine coral cameo, rose gold finish. Size, 6 to 8.
No. 6919 10k...$22.65

Heavy mounting genuine pink and white cameo, English finish. Size, 6 to 8.
No. 6920 10k. .$32.90

Polished English finish, genuine coral cameo. Size, 5 to 8.
No. 6921 10k...$17.95

Heavy mounting, pierced, polished, English finish, genuine coral cameo. Size, 5 to 8.
No. 6922 10k...$15.65

Heavy pierced polished. English finish, genuine coral cameo. Sizes, 4 to 7½.
No. 6923 10k... $14.65



Polished English finish, genuine coral cameo. Size, 5 to 8.
No. 6924 10k...$10.40

Polished English finish, genuine coral cameo. Size, 4 to 8.
No. 6925 10k...$19.30

Polished English finish, genuine coral cameo. Size, 4 to 7.
No. 6926 10k.. .$6.20

Real bloodstone. Size, 8 to 11
No 6927 10k. .$13.55

Real garnet carbuncle Size, 7 to 12
No. 6928 10k. .$11.65

Real garnet carbuncle. Size, 8 to 12.
No. 6929 10k...$17.15

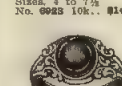
One ruby, carved, polished, finish. Size, 8 to 12.
No. 6930 10k...$14.70

Dark brown cameo. Size, 7 to 11
No. 6931 8k.....$9.15

Extra heavy, Roman, carved, mounting, 3 fine opals. Size, 7 to 10.
No. 6932 10k.. $24.45
3 rubies
No. 6932½ 10k.$13.45

Genuine amethyst, English finish. Size, 8 to 12
No. 6933 10k . $18.30

Polished English finished, amethyst. Size, 7 to 11
No. 6934 10k.. $11.00

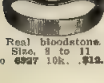


Heavy, polished and chased mounting, 1 emerald. Size, 7 to 11
No 6935 10k. .$11.65

Heavy English finish, 1 emerald. Size, 8 to 12.
No. 6936 10k...$11.70

Heavy, polished, mounting, 1 ruby. Sizes, 7 to 11.
No. 6937 10k. $11.00

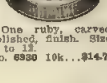
Extra heavy, polished, chased mounting, ruby Sizes 6 to 11.
No. 6938 10k...$14.65



Heavy, chased English finish, 3 rubies. Size, 8 to 12.
No. 6939 10k.. $13.60

Heavy polished, chased mounting, 1 ruby. Size, 8 to 12.
No. 6940 10k...$15.85

Extra heavy, polished mounting, 1 garnet. Size, 7 to 10.
No. 6941 10k...$15.40



Heavy, polished, mounting, emerald.
No. 6942 10k...$11.00
1 sapphire.
Sizes 7 to 11½.
No. 6943 10k...$11.00

Polished chased mounting, 1 ruby. Size, 7 to 10½.
No. 6944 10k....$9.80

Heavy, polished mounting, 1 fine opal.
No. 6945 10k...$16.95

Heavy, fine reconstructed white sapphire, chased, English finish. Size, 7 to 12.
No. 6946 10k...$20.70

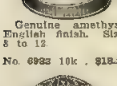
Heavy fine reconstructed white sapphire. Size, 7 to 11.
No. 6947 10k. $19.50

Heavy, fine reconstructed white sapphire. Size, 7 to 11.
No. 6948 10k.. $17.40

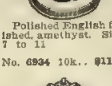
Heavy, fine reconstructed white sapphire. Size, 7 to 11.
No. 6949 10k...$18.35

Heavy, flat Belcher, 1 fine reconstructed white sapphire. Size, 7 to 12.
No. 6950 10k.. $18.05

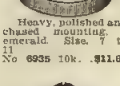
Heavy polished, English finish mounting, 1 fine reconstructed white sapphire. Size, 7 to 10.
No. 6951 10k $14.65



Extra heavy, tooth mounting, 1 fine reconstructed ruby, 2k. Sizes, 8 to 12.
No. 6952 10k...$24.00

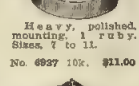


Polished heavy carved claw mounting, 1 fine reconstructed ruby. Sizes, 8 to 12.
No. 6953 10k...$22.35

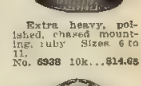


Heavy flat Belcher 1 fine reconstructed ruby, 1½k. Sizes, 8 to 12.
No. 6954 10k...$18.35

Heavy Belcher, 1 fine reconstructed ruby set, gold leaves. Sizes 8 to 12.
No. 6955 10k $22.00



Heavy mounting, fine reconstructed ruby, English finish. Sizes, 8 to 11.
No. 6956 10k...$19.50



Heavy tooth, 1 fine reconstructed ruby. Sizes, 9 to 11.
No. 6957 10k...$17.00

Heavy round, Belcher, 1 fine reconstructed ruby, 1k Sizes, 8 to 12.
No. 6958 10k...$14.65

Heavy tooth mounting, 1 fine reconstructed ruby Sizes, 5 to 10
No. 6959 10k...$14.65

Heavy tooth, 1 fine reconstructed ruby. Sizes, 8 to 11.
No. 6960 10k...$15.40

Polished chased, 1 fine reconstructed ruby. Sizes 5 to 8.
No 6961 10k...$13.45

Polished, English finish mounting 1 fine reconstructed ruby. Sizes, 7 to 10
No. 6962 10k...$14.70

Heavy mounting, 1 fine reconstructed ruby, 2 fine reconstructed white sapphires Sizes 8 to 9.
No. 6963 10k.. $18.15

# *ROLLING STORE LADDERS

## CANNON BALL

Ladder is made of clear Georgia pine, filled and varnished; open panel sides; steps 5½ inches wide, width of ladder 12 inches; steps are connected to the sides of the ladder by means of a steel tee; the tee is fastened to the outer side of the ladder by two large screws, thus preventing the ladder from spreading, the trolley is self-adjusting, fitted with ball wheels, which have hard steel, roller bearings, and are covered with special brackets for attaching to the ceiling; the floor wheels are cast in two parts 5 inches in diameter, with rubber cushion-tires clamped between, with steel axle, and run without friction or noise

When ordering store ladders, give the exact height of the ceiling and the length of the track.

| | Each |
|---|---|
| No. 3—Cannon Ball ladder; complete with attachments, shipping weight 50 lbs | $20 00 |
| | Foot |
| No. 3R—Cannon Ball steel trolley track; complete with hangers; weight per foot 2 lbs | $ 0 32 |

## MYERS

Ladder is made of clear Georgia pine, filled and varnished; open panel sides 5 inches wide; steps 5 inches wide; width of ladder 12 inches; steps supported at each end by a malleable iron dowel tee, which makes an extra strong construction; trolley is self-adjusting; fitted with 3-inch anti-rattler wheels, lathe turned and bored and fitted with rubber cushion-tires and turned steel bearings; the track is a double-angle steel rail, suspended from the ceiling by lag screws; complete with clamps, brackets and end stops; can be suspended by jointed or rigid hangers, or screwed close to the ceiling with flanged plates; can be used on uneven ceiling without blocking or bridging; the floor wheels or travelers are 5 inches in diameter; made with metal sides, fitted with rubber cushion-tires, clamped in such a position that they cannot become loose; these rollers are placed on a steel axle and run without friction or noise.

When ordering store ladders, give exact height of the ceiling and length of the track.

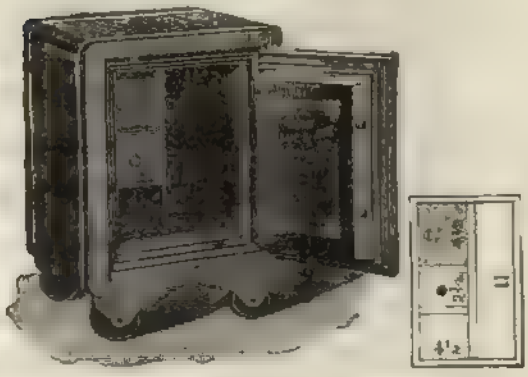
| | Each |
|---|---|
| No. 4—Myers' ladder complete with attachments; shipping weight 50 lbs | $20 00 |
| | Foot |
| No. 4R—Myers' steel trolley track complete with hangers; weight per foot 2 lbs | $ 0.30 |

NOTE—Goods marked thus (*) are for factory shipment only.

# *ALPINE FIRE PROOF SAFES

**Name of Customer Will Be Lettered on Top Bar of Safe Free of Charge.**

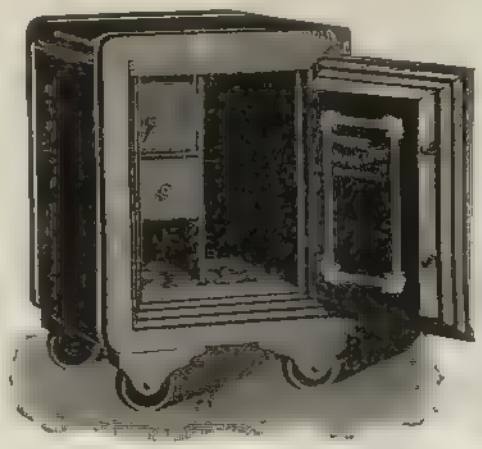
All Alpine Fire Proof Safes are constructed by forming outer and inner boxes of wrought steel between which the concrete filling is introduced in a semi-liquid state, permeating and reaching into every crevice, making the whole structure, when hardened, a solid mass. Nothing has been more fully tested and more satisfactorily endorsed than this cement concrete, which is a first-class non-conductor. The filling soon becomes hard and dry, and never corrodes the steel. The outside steel box is formed of one continuous plate, bent round at the corners forming top, sides and bottom. This box is securely attached to heavy front and back wrought iron angle frames, forming in out line an all round-cornered safe. The doors are stepped or flanged in the usual manner, and secured by front and back bolts. All safes are fitted with non picakable combination locks, with T handle to operate the bolt work and open door and dial knob to operate the combination. The lock has three tumblers, and is set to three numbers. Full instructions accompany each safe, enabling every purchaser to reset his lock on different numbers, so that no one will know the combination except himself. The exterior finish is first-class in every particular.



No. 35

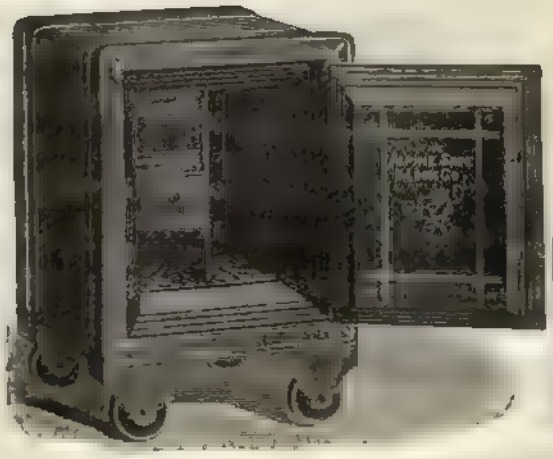



Inside Plan

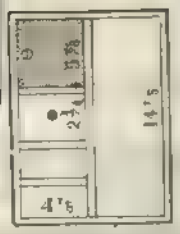


No. 37

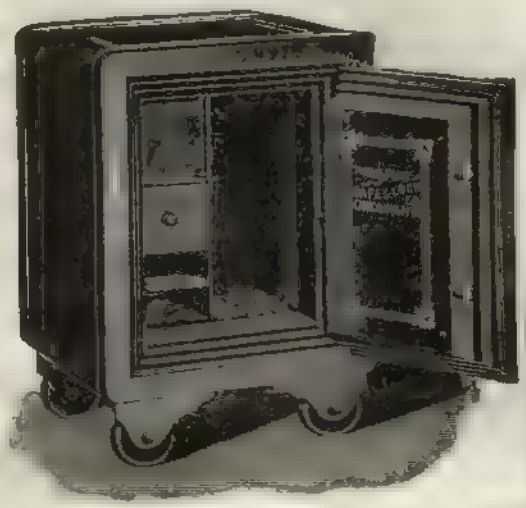
Inside Plan



No. 39




Inside Plan



No. 41

Inside Plan

## WITH DRAWER, CASH BOX, PIGEON HOLE AND BOOK SPACE

**Single door without inside doors.—Combination or key lock, as ordered.**

| No | OUTSIDE MEASURE Height Inches | Width Inches | Depth Inches | INSIDE MEASURE Height Inches | Width Inches | Depth Inches | Approximate Weight | Each | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 23 | 15 | 16 | 11½ | 9 | 8½ | 225 lbs. | $40.00 | $28 00 |
| 37 | 25 | 16 | 17 | 13 | 9 | 10 | 350 lbs. | 46.00 | 32.20 |
| 39 | 29½ | 15¾ | 18 | 15 | 10 | 10 | 500 lbs. | 56.00 | 39 20 |
| 41 | 32 | 22 | 22 | 18 | 14 | 12½ | 750 lbs | 75.00 | 52 50 |

No. 41 has two pigeon holes.

**NOTE—Goods marked thus (*) are for factory shipment only.**

## AUTOMOBILE WATCHES

### DOXA

No. M302

Highly polished brass offset case; screw bezel with safety screw at the stem and brass covering over the crown making the case waterproof. This case is fitted with a velvet cushion inside, upon which the watch rests, protecting the movement from jarring. Screws can be fastened from the outside of the case and also from the inside, making same secure so that it cannot be stolen from the machine. The movement is stem wind and stem set; will run eight days with one winding; is made of nickel with exposed winding wheels; contains 15 jewels; is lever escapement, making a very accurate timekeeper. The balance is cut expansion fitted with true timing screws and has brequet hair-spring. Escape wheel made of steel; and pivots tempered and highly polished. White porcelain dial with Arabic numerals and blue steel hands.

Each

No. M302—Width 3¼ inches, eight day; weight 2 lbs.....$30.00

No. M304

### GEM

Black japanned steel offset case, containing removable gem watch; stem wind and set; fastens to dash from inside of case.

Each

No. M304—Black and nickel; one day; weight 8 oz. .. .... ... ..... . .. ... . . .... . . . .... .. $ 2 50

Packed, one in box.

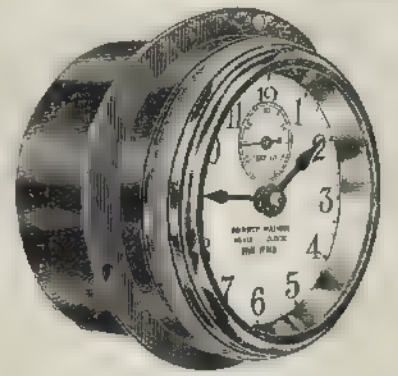
## AUTOMOBILE CLOCKS

### SESSION KEYLESS

Each

No. M8806 Eight day time; outside wind and set regulated from face of clock, 2½ inch dial; beveled glass; not subject to jar or vibration, height 4 inches; finished in nickel and black; weight 2½ lbs...$ 4.50

### PHINNEY-WALKER KEYLESS



The Phinney-Walker Keyless Clocks are especially built to withstand the hard usage and vibration of automobile travel. The advantage of the rim winding feature is obvious as a key is unnecessary. Clock is wound by simply turning the bezel to the right. Hands are set after removing the bezel by turning it to the left. Movement is inclosed in an inner case which renders the clock dust and moisture proof. Clocks are fastened to the dash from the inside of the case and locked in that position

Each

No. M8804—For Cadillac or Overland cars; Phinney-Walker movement; perfect in construction and good timekeeper; nickel plated brass case; weight 2¾ lbs. .....$10.50

No. M8805 Plain dial; otherwise same as No. M8804 ..... 10.50

Each

No. M1801—Model S; Phinney-Walker movement; perfect in construction and good time keeper; nickel plated brass offset case; 2¾-inch dial; weight 3¼ lbs. ..... .....$12.00

No. M1800—Model A; fitted with a high grade Seth-Thomas movement; seven jewels, brequet hair spring; compensating balance wheel; timing and banking screws; square offset case of nickel plated brass, 3¾-inch dial; weight 3 lbs. . . . . 30.00

All above, packed, one in box.

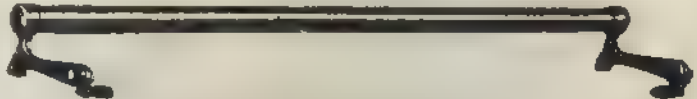
## ROBE RAILS

Bar drops down and out of the way when not in use; drop bar also prevents robes or garments slipping from rail.

Each

No. M356—Black and nickel; ⅝x30 inches; weight 1½ lbs... $ 2.00
No. M358—Black and brass; ⅝x30 inches; weight 1½ lbs..... 2 00

## FOOT RAILS



This is a very durable, elaborate, folding foot rail of neat design and adds both to the appearance of the tonneau and to the comfort of its occupants.

Each

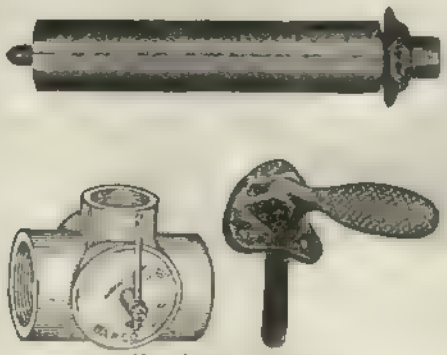
No. M360—Polished brass or black; 1x30 inches; weight 2 lbs..$ 1 70
No. M361—Nickel plated or black; 1x30 inches; weight 2 lbs...- 1.70

# HORNS

## ROUND DRAGON

No. M200

## BARCO



Nos. M207 and M208

### ROUND DRAGON

The Round Dragon horn is an original and popular pattern with graceful lines and deep, heavy tone, producing a distinct, pleasant musical sound, suitable for all sizes of cars

| | Each |
|---|---|
| No. M200—Round Dragon, brass finish; weight 4 lbs. | $ 5 00 |

Packed, one in cardboard box

### BARCO MOTOR CHIMES

The Barco Chime Horn, while small in dimensions, is as loud as any on the market regardless of size; it gives four harmonious tones combined in one loud, warning blast that guarantees the right of way There is absolutely no back pressure, even though the exhaust passage to the muffler be entirely closed It will not clog with soot or oil and the necessity of cleaning is done away with as it cleans itself. Made entirely of brass, blown by the exhaust gases of the motor obtained by means of a valve controlled by a foot pedal

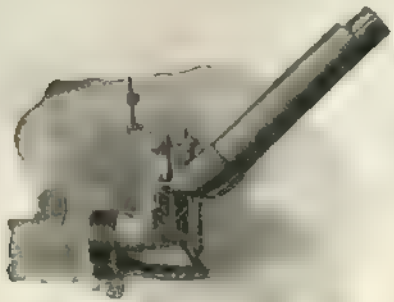
| | Each |
|---|---|
| No. M207 Barco Baby Brass Chime; size 2x11½ inches; tube complete with valve to fit 1, 1¼ or 1½ inch standard threaded iron pipe, or 1¼ to 1⅝ inch steel tubing not threaded; weight 2 lbs. | $ 5.50 |
| No. M208 Barco Regular Brass Chime, size 2¼x14½ inches, tube complete with valve to fit 1, 1¼ or 1½ inch standard threaded iron pipe, or 1¼ to 1⅝ inch steel tubing not threaded; weight 3 lbs. | 7 00 |

Packed, one in cardboard box.

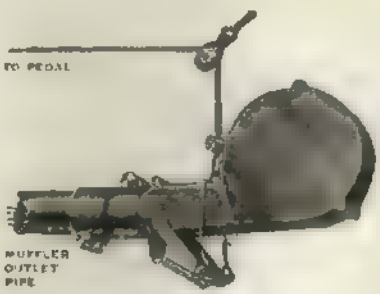
| | Each |
|---|---|
| Extra—For either of above horns with valves 2-inch standard threaded iron pipe, or 2 to 2½-inch steel tubing not threaded | $ 0.50 |

NOTE—Prices are complete with valve, pedal and cable. In ordering specify size of valve wanted The size of an iron pipe is determined by measuring the inside diameter of the pipe, steel tubing sizes are the outside diameter of the tubing. Give name and model of car and we will send valve to fit

## WAYMAKER



## JERICHO




Polished brass, attached to outlet pipe at rear of muffler and blown by the exhaust, gives a very distinct signal has a pleasant tone, operated by foot pedal, with clamp or pipe size couplings; sizes 1⅛, 1⅜, 1½, 1¾ and 2 inches.

| | Each |
|---|---|
| No. M771—Complete with brass coupling, diameter of sound pipes ⅞ inch; weight 2½ lbs. ....$6.00 | $ 8.00 |
| No. M772—Complete with brass coupling; diameter of sound pipes 1 inch; weight 3½ lbs. ....$7.00 | 9.34 |

The Jericho motor car signal is made of aluminum to be attached in rear of muffler either clamped over outlet pipe or screwed into muffler. It is controlled by a pedal, leaving the hands free, and the pedal may be so placed as to permit its operation with the heel, using the same foot for clutch or brake. Complete with pedal, coupling, cable, pulley, etc.

| | Each |
|---|---|
| No M1H For cars 20 to 25 horse power, weight 1¼ lbs. | $12 00 |
| No. M2H—For cars up to 30 horse power; weight 1¼ lbs. | 12.00 |

Packed, one in carton

# WATCHES

DEVERE, AUTOMOBILE

Each

**No. DEPB**—Heavy Solid Brass Case Polished, with Offset, Holding a Complete Watch; One Day Time, Stem Wind and Set; 1⅞ inch White Dial; Height 3 in.; Width 2⅜ in.; Weight 12 ozs..... **$4 10**

DUANE, AUTOMOBILE

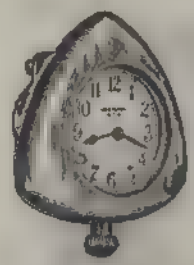
Each

**No. DUPB**—Light Solid Brass Case, Polished, with Offset, Holding a Complete Watch; One Day Time Movement; Stem Wind and Set; 1¾ in. White Dial; Height 3½ in.; Width 2⅞ in.; Wt. 8 ozs **$3 30**

FIAT, MOTORCYCLE

Each

**No. FB**—Polished Solid Brass Case, Holding a Complete One Day Movement Watch; Stem Wind and Set; 1½ inch White Dial; Size of Case 2⅛ inches in Diameter; Weight 8 ozs **$4 10**



NEBO, MOTORCYCLE

Each

**No. NB**—Polished Solid Brass Case, Holding a Complete Watch; One Day Time; Stem Wind and Set; 1½ inch Dial; Height 2¾ in.; Width 2⅜ in.; Weight 12 ozs... **$4 10**

One in a Box

# AUTOMOBILE MIRRORS

Made to Attach at Driver's Side to Warn Him of Approach of Vehicle from the Rear; is Indispensable in Cities where Traffic is Heavy; a Glance at the Mirror is all that is Necessary to Inform Him of Danger from Behind.

Adapted to any Make of Car.

ROUND REDUCING MIRRORS

Each

**No. 4B**—4 inch Mirror, Reduces Objects About One-half of any Ordinary Mirror; Burnished Brass Mirror Mountings with Hinge Rod Connections; 7/16 inch Solid Brass Rod, 15 inches Long, with Brass Sliding Clamp, Bolt and Nut; Weight 2 lbs .. **$4 00**

**No. 4N**—Same as above only Nickel Plated ..... **4 00**

OBLONG REGULAR MIRROR

Each

**No. 5B**—8x6 inch Regular Mirror; Burnished Brass Mirror Mountings with Ball and Socket Joint Rod Connection; ⅞ inch Hollow Brass Rod, 7 inches Long, with Brass Sliding Clamps, Bolts and Nuts; Weight 3 lbs..... **$6 00**

**No. 5N**—Same as above only Nickel Plated..... **6.00**

One in a Box

# LIMOUSINE VASES AND BRACKETS

**Genuine Cut Glass Flower Vases and Nickel Plated Cast Brass Brackets.** The Rich, Deep, Heavy Cutting in these Vases is One of the Latest Patterns of High Grade Cutting, Unusually Artistic. The Vase Measures 8 inches in Length and 4 inches Diameter Across the Top, Large Enough to Receive the Average Amount of Flowers.

The Bracket is Made of Solid Brass Finely Nickel Plated, Shaped in a Very Artistic and Attractive Design, Supplied with Screws to Match. This Bracket is Made Sufficiently Durable to Withstand the Vibration of the Car. Is Solid and Substantial, and will not Bend or Break.

Each

**No. 9LVC**—Vase and Bracket Complete; Weight 1 lb..... **$4 40**

**No. 9LV**—Vase Only; Weight 8 ozs..... **2 50**

**No. LVB**—Bracket Only; Weight 8 ozs..... **2 00**

Loose

# RADIATOR EMBLEMS

Strongly Made of Heavy Cast Metal; 24 Karat Gold Plated; Fasten to Car by Bolt.

Each

No. 5307—Cat; Height 4 in.; Wt. 10 ozs. **$2 20**

One in a Box

Each

**No. 5405**—Eagle; Height 4 in.; Wt. 12 ozs. **$2 20**

One in a Box

Each

No. 5404—Deer; Height 4 in.; Wt. 14 ozs. **$2 20**

One in a Box

# PHYSICIANS' CROSSES

The Recognized Symbol of the Medical Profession; Saves many Inconveniences and Delays; Enameled Steel.

Each

**No. 3PC**—5 inch; Weight 8 ozs.... **$1 10**

Loose

# CREEPERS

An Appealing Device to those who have Been Compelled to Suffer the Annoyance of Dirt and Grease by Lying on their Back Underneath a Car; Made Entirely of Steel and Therefore Indestructible; has Large Black Enameled Duck Pillow, Filled with Sea Weed

Each

**No. AC**—Length 36 inches, Width 15 inches; Weight 15 lbs **$4 40**

Loose

# EYE SHIELDS AND GOGGLES

Doz

No. M25G—Large round aluminum cups, ventilated; fitted with 1⅝-inch diameter clear lenses set in leather frame, with elastic head band; weight per dozen ¾ lb... .. . $ 1 20

No. M30G—Large round aluminum cups, ventilated; fitted with 1⅝-inch diameter smoked, blued and amber colored lenses, assorted to the dozen; set in leather frame with elastic head band; weight per dozen ¾ lb..... 2.00

Packed, one dozen in box.

Doz.

No. M18—Chicago Eye Shield; celluloid frame, bound in felt, fitted with mica lenses, in clear or smoked lenses; weight per dozen ¾ lb. .....$ 2.20

No. M28—Chicago Eye Shield; wire gauze frame, bound in felt, fitted with mica lenses, in clear or smoked lenses; weight per dozen 1 lb. ..... 3.00

Packed, one in box; one dozen in carton.

Doz.

No. M290G—Black or tan leather; metal frame; well ventilated and fitted with elastic head band; 70-mesh wire gauze; clear or colored lenses; 2½-inch cups, wool bound; weight per dozen 1¼ lbs.....$ 8.00

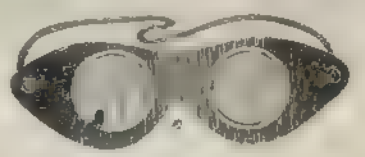
Packed, one dozen pairs in box.

Doz.

No. M1024G—Wire gauze frame; metal cup 1¾ inches in diameter; clear or colored glass; weight per dozen 1 lb.....$ 3.00

No. M1029G—Wire gauze frame; metal cup, 2 inches in diameter; clear or colored glass; weight per dozen 1¼ lbs..... 4.00

Packed, one dozen pairs in box.



Doz.

No. M291G—Round metal cups, ventilated; fitted with 1⅝ inch clear lenses; set in leather frame with elastic head band, weight per dozen 1½ lbs ..... $ 3 00

Packed, one pair in snap button, rubber lined case.

Doz

No. M27G—Large round curved shape eye pieces; ventilated; fitted with 1¾-inch clear flat lenses set in metal rim; leather mask; velvet trimmed edges; elastic head band; weight per dozen 1 lb..... .... .. $ 3 50

Packed, one dozen pairs in box

Four glass; metal frame; leatherette mask; unlined; bound with silk

Doz

No. M32G—Four-glass goggles; weight per dozen 1¾ lbs. ....$ 5.50

Packed, one in box.

Bright metal cups; ventilated; leather center to fold; edged with velvet and chenille; large flat glasses; adjustable elastic head band.

Doz.

No. M40G—Bright metal cup goggles; weight per dozen 1¾ lbs.$ 6.50

Packed, one in box

## CHICAGO WIDE VISION

Doz

No. M351—High grade leather frame, aluminum reinforced and silk fur bound; aluminum cups, 2¼-inch clear lens; weight per dozen 1½ lbs.....$ 7.50

Packed, one in cardboard box; one dozen in carton.

All rubber, with ventilated rubber cups; large curved white glasses, adjustable elastic head band.

Doz.

No. M45G—Rubber goggles; weight per dozen 2¾ lbs.....$ 8 00

## LENSES

Doz Pairs

No. M46L—Extra clear lenses for above.....$ 1.40

No. M47L—Extra amber lenses for above ..... 1.60

Packed, goggles, one in box; lenses, one dozen in box.

## GOGGLES

Collapsible tan cups; small leather mask; edged with silk; flat oval glasses; adjustable elastic head band.

Doz.

**No. M35G**—Collapsible goggles; weight per dozen 1¼ lbs.....$ 8.00

Packed, one dozen in box.

Doz.

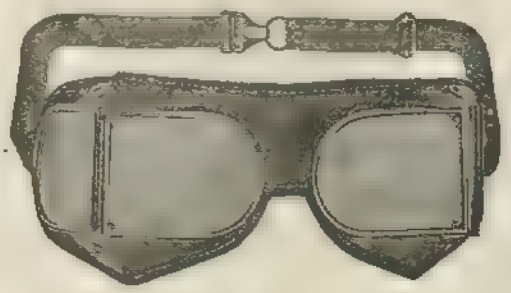
**No. M284G**—Non-Strain Goggles; can be fitted to the face; frosted aluminum frames; leather hinges; trimmed with leather and bound with silk chenille; has sliding buckle on wide elastic band, is fitted with a clamp ring to hold the lenses which can be removed and new lenses replaced if necessary; used largely by railroad engineers and firemen, weight per dozen pairs 2¼ lbs.....$10.00

Packed, one pair in box

### LENSES

| | Doz. Pairs |
|---|---|
| **No. M285L**—Extra clear lenses for above | $ 3.50 |
| **No. M286L**—Extra amber lenses for above | 3.50 |
| **No. M287L**—Extra smoked lenses for above | 3.50 |

Packed, one dozen in box.



Doz

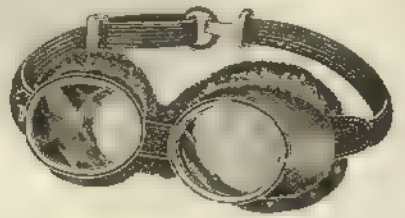
**No. M33G**—Four-glass, metal frame, with patent metal hinges for easily removing lenses; leather mask; ventilated; lined with green silk and velvet bound; weight per dozen pairs 2¼ lbs. .....$10 00

Packed, one in box

### LENSES

| | Doz. Pairs |
|---|---|
| **No. M34L**—Extra clear lenses for above | $ 2.00 |
| **No. M35L**—Extra amber lenses for above | 2.00 |

Packed, one dozen in box



Doz

**No. M36G**—Collapsible eye cup; edged with chenille; leather nose piece and tabs; lined; large flat oval glasses; adjustable elastic head band; weight per dozen pairs 1½ lbs....$10.00

Packed, one pair in box.

Doz.

**No. M33S**—Albex Eye Protector; clear and amber lenses; solid white metal frame; easily adjusted; perforated leather side guards 1⅞-inch clear and amber flat lenses; weight per dozen 3 lbs. .....$13 50

Packed, one pair in steel, cloth covered box.

Doz.

**No. M66S**—Celluloid frame and side guards; adjustible to perfect fit; 1¾ inch amber lenses; weight per dozen 2 lbs.....$18 00

Packed, one pair in steel, cloth covered box

Doz.

**No. M37G**—Collapsible silk eye cups; edged with velvet and chenille; leather nose piece and tabs; new form; large curved glasses; adjustable elastic head band; weight per dozen pairs 2¼ lbs. .....$12 00

Packed, one pair in box.

## GOGGLE CASES

No. M2C

No. M4C

Doz.

**No. M2C**—Telescope case; pigskin imitation fibre; large size; suitable for large flat glass and curved collapsible goggles; four-glass, etc. .....$ 1.60

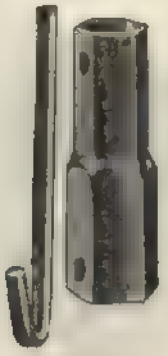
**No. M4C**—Metal case; black leather covered; snap button cover; suitable for most collapsible goggles ..... 5 00

Packed, one dozen in box.

# WRENCHES

## SOCKET

No. M977



No. M978

For use in removing and handling spark plugs and will save many difficulties along this line; provided with a detachable wire handle and very convenient.

Each

No. M977—Single end, ⅝-inch opening, to fit ½-inch Standard spark plugs, weight 1 lb. .....$ 0.32

No. M978—Double end, ⅝ and 1⅛-inch openings, to fit ½-inch Standard and A. L. A. M. spark plugs; weight 1¼ lbs..... .40

## MOSSBERG SETS

A very compact and convenient Socket Wrench set. It has a small but well chosen assortment of sockets, all finished in nickel.

Set

No. M976—Mossberg Socket Wrench Set; weight 2½ lbs.....$ 3 50

Packed, one in Fibre tourist case.

A high grade outfit of mottled case hardened steel throughout, one 10-inch offset handle and one 10½-inch straight detachable handle with fourteen hexagon sockets fitting sizes from ⅜ to 1⅝ inches.

Set

No. M974—Mossberg Wrench Set; weight 5 lbs.. $ 4 50

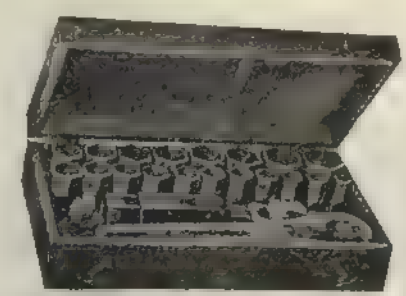
Packed, one in hardwood box.

## MOSSBERG SETS

Set

No. M979—Consists of one ratchet socket wrench, highly nickel plated; seven hexagon sockets fitting sizes from ⅜ to 1⅛ inches, seven square sockets fitting sizes from ⅜ to 1⅛ inches, all mottled case hardened steel; weight 6½ lbs.....$ 6.80

Packed, one set in wood box.



Set

No. M972—Consists of 10-inch ratchet handle, one extension bar, highly nickel plated; one universal joint, two screw driver bits; 19 hexagon, mottled, case hardened steel sockets, fitting sizes from ⅜ to 1⅛ inches; two hexagon spark plug sockets, 4 inches long, ⅝ and 1⅛-inch openings, weight 6½ lbs. .....$12.00

Packed, one set in wood box.

Each

No. M964—Consists of 10-inch ratchet wrench handle, one take-down handle, one extension bar, one offset handle, nickel plated; one universal joint, one alligator wrench, one set of five double end general service wrenches, one each ⅜, 1⅛ and 1⅛-inch spark plug sockets, three screw driver bits, one cotter pin extractor, eleven square sockets, sizes ⅜ to 1⅛ inches; twenty-three hexagon sockets, sizes ¼ to 1¼ inches; in hardwood box; weight 11 lbs . . . . $16.00

## AUTO-CLE WRENCH SETS

The Auto-Cle contains a full line of square and hexagon sockets, ratchet wrench, universal joint, permitting use of wrench at any angle up to 90 degrees, a long and short extension bar, two sizes of screw driver bits, and a spark plug socket; made of best quality of material

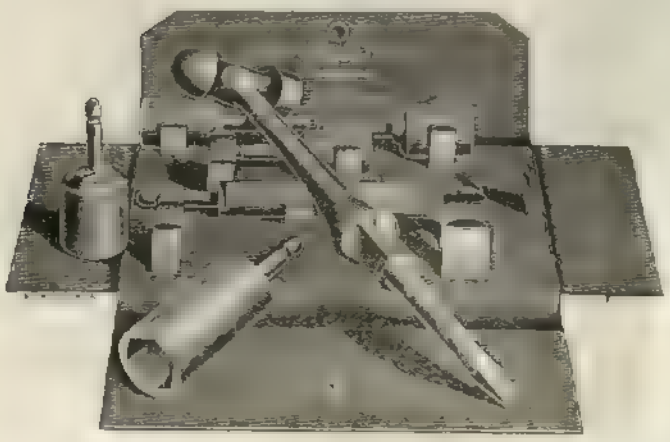
Each

No. M970—Complete with ten sizes of sockets; put up in leather case, size 3x2x10 inches; weight 5 lbs.....$11.50

Each

No. M971—Complete with 30 sizes of sockets; put up in hardwood case; size 3x6½x13 inches; weight 8 lbs..... $15.00

## TOOL SETS



A high grade tool set; compact, durable and simple; two oil tempered screw driver blades, seven case hardened hexagon sockets fitting sizes from ⅛ to ⅝ inches; one polished and case hardened hammer, with end constructed to hold the different tools

Set

No. M982—Lane Unique; weight 3 lbs.... .....$ 7.00

Packed, one set in box.

## SCREW PLATES

### EASY

No. 1B

No. 5B

"Easy" adjustable tool steel, tempered dies; solid steel collets; full polished steel stock and tap wrenches; tempered steel taps.

**U. S. Standard Thread; Right Hand**

Set

No. 1B Contains one stock 15½ inches long; one adjustable tap wrench 14½ inches long; five sets of dies, collets and taper taps; cutting, ¼, 20; 5/16, 18; ⅜, 16; 7/16, 14, ½, 12, weight per set 8½ lbs. .....$12.50

No. 5B—Contains two stocks, each 15½ and 23 inches long; one adjustable tap wrench 18½ inches long; seven sets of dies, collets and taper taps; cutting ¼, 20; 5/16, 18; ⅜, 16, 7/16, 14, ½, 12; 9/16, 11; ⅝, 10; weight per set 16½ lbs..... 16 50

**A. L. A. M. Standard Thread; Right Hand**

Set

No. 1B. A. L. A. M.—Contains one stock 15½ inches long; one adjustable tap wrench 14½ inches long; five sets of dies, collets and taper taps; cutting ¼, 28; 5/16, 24; ⅜, 24; 7/16, 20; ½, 20; weight per set 8½ lbs. ..... $12 50

No. 5B. A. L. A. M.—Contains two stocks, each 15½ and 23 inches long; one adjustable tap wrench 18½ inches long, seven sets of dies, collets and taper taps; cutting ¼, 28; 5/16, 24, ⅜, 24, 7/16, 20, ½, 20, 9/16, 18, ⅝, 16; weight per set 16½ lbs ..... 16.50

No. 7B

**U. S. Standard Thread; Right Hand.**

Set

No. 7B—Contains two stocks, each 15½ and 26 inches long; one adjustable tap wrench, 18½ inches long, nine sets of dies, collets and taper taps; cutting ¼, 20; 5/16, 18; ⅜, 16; 7/16, 14; ½, 12; 9/16, 11; ⅝, 10; 11/16, 9; 1, 8; weight per set 18½ lbs...$25 00

**A. L. A. M. Standard Thread; Right Hand**

Set

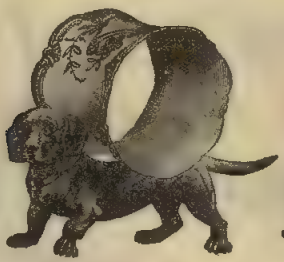
No. 7B A. L. A. M.—Contain two stocks, each 15½ and 26 inches long ; one adjustable tap wrench 18½ inches long; nine sets of dies, collets and taper taps; cutting ¼, 28; 5/16, 24; ⅜, 24, 7/16, 20; ½, 20; 9/16, 18; ⅝, 16; 11/16, 14; 1, 14 weight per set 18½ lbs. ..... $25 00

Packed, all above, one set in varnished wood case.

NOTE For stocks and dies, screw plates, taps and tap wrenches, see pages 339 to 342

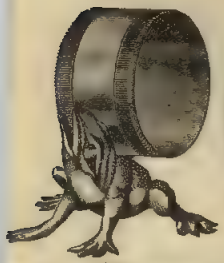
# Fine Quadruple Silver Plated Ware

9733
Napkin Ring, Satin Engraved,
$2 65 each

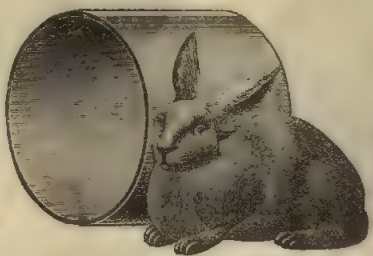


9734
Satin Engraved,
$2 40 each

9735
Napkin Ring, Satin Engraved,
$2 50 each.



9736
Napkin Ring, Chased, Gold Lined,
$2 15 each.

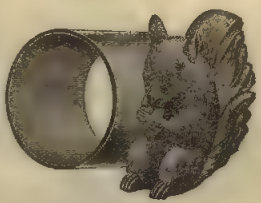


9737
Napkin Ring, French Gray $1 80 each

9738
Napkin Ring, Satin,
$1 85 each.

9739
Satin Engraved, Gold Lined,
$2 40 each.

9740
Napkin Ring, Chased, Gold Lined,
$1 75 each.



9741
Napkin Ring, French Gray,
$1 80 each.

We Are "The House of Quality," You Can Be Sure that Anything You Get From Us Is All Right.

"THE HOUSE OF QUALITY"

# Sheffield Plate, Burnished Silver on Nickel Silver, Grape Trimmed and Thread Border

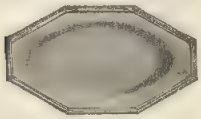
Each Piece an Exact Reproduction of the Antique

PRICES EACH

**OPEN VEGETABLE DISH (OVAL)**

Length, 11¼ inches; width, 8 inches, height, 1¾ inches.

No. W158 ..... $16.70



**BREAD TRAY**

Burnished thread border. Length, 12⅜ inches; width, 8⅛ inches.

No. W74/1 ..... $16.70

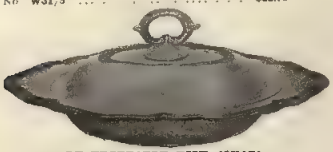
**GRAVY OR SAUCE SET**

Gravy boat, height, 4 inches; length, 7⅞ inches. Tray, length, 9 inches.

No. W28 E. ..... $18.75

Same as above, with thread border

No. W31/5 ..... $18.75



**DOUBLE VEGETABLE DISH (OVAL)**

Handle unlocks. Makes two open dishes. Length, 12½ inches; width, 9⅝ inches; height, 4½ inches.

No. W31/79 ..... $30.45

Larger size, same pattern. Length, 13⅝ inches, width 9⅝ inches.

No. W31/61 ..... $41.70

Same as above, grape trimmed. Length, 12⅝ inches; width, 10 inches; height, 4½ inches.

No. W29/79 ..... $30.45

Larger size, grape trimmed. Length, 13⅜ inches; width, 9⅝ inches; height, 5½ inches.

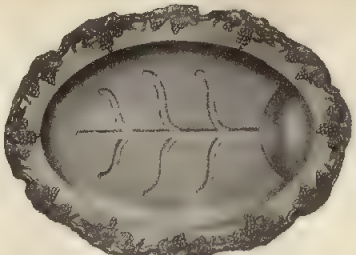
No. W29/61 ..... $41.70

**WATER PITCHER**

Engraved. Height, 9¾ inches. Capacity, 6 pints.

No. W154 ..... $55.85

Same pitcher, plain, no engraving ..... $46.95



**PLATTERS WITH GRAVY WELL AND TREE (ON FEET)**

Grape trimmed

| | | |
|---|---|---|
| No. W2913/11 | Length, 14 inches | $37.50 |
| No. W2917/11 | Length, 17 inches | 55.85 |
| No. W2930/11 | Length, 20 inches | 69.60 |
| No. W2922/11 | Length, 22 inches | 83.35 |

Same as above, with thread border

| | | |
|---|---|---|
| No. W3113/11 | Length, 13 inches | $35.00 |
| No. W3117/11 | Length, 17 inches | 46.25 |
| No. W3120/11 | Length, 20 inches | 55.85 |
| No. W3122/11 | Length, 22 inches | 69.60 |

**MEAT PLATTERS**

Same as above, with plain center and without feet. Grape trimmed.

| | | |
|---|---|---|
| No. W2913/11 | Length, 13 inches | $33.35 |
| No. W2915/11 | Length, 15 inches | 35.00 |
| No. W2917/11 | Length, 17 inches | 46.70 |
| No. W2920/11 | Length, 20 inches | 58.35 |
| No. W2922/11 | Length, 22 inches | 69.60 |

Same as above with thread border

| | | |
|---|---|---|
| No. W3113/11 | Length, 13 inches | $30.95 |
| No. W3115/11 | Length, 15 inches | 38.70 |
| No. W3117/11 | Length, 17 inches | 46.25 |
| No. W3120/11 | Length, 20 inches | 46.25 |
| No. W3122/11 | Length, 22 inches | 57.95 |

**SWINGING HOT WATER KETTLE**

Chased, grape decoration, ebony handle. Height, 10¾ inches. Capacity, 6 pints, half pints.

No. W059 ..... $55.85

Same pattern, larger size. Height, 11½ inches. Capacity, 7 half-pints.

No. W063 ..... $65.00

**OBLONG TRAY (ON FEET)**

Engraved.

No. W4122/5 Length, 25 inches .. $120.45

**OVAL SERVING TRAYS**

Chased, grape trimmed. Fitted with handles and feet.

| | | | |
|---|---|---|---|
| No. W2918/7 | Length, 18 | inches... | $ 69.60 |
| No. W2920/7 | Length, 21 | inches | 78.75 |
| No. W2923/7 | Length, 23 | inches.... | 102.10 |
| No. W2925/7 | Length, 25½ | inches.... | 125.00 |

**SWINGING HOT WATER KETTLE**

Height, 10¼ inches. Capacity, 5 half-pints. Fitted with ball feet and ebony handle.

No. W59 ..... $35.00

Same pattern, larger size. Height, 11⅝ inches. Capacity, 7 half-pints.

No. W63 ..... $41.70

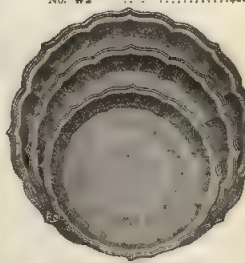
**COMBINATION SHAKER AND STRAINER**

Burnished. Height, 8 inches. Diameter, 3⅛ inches. Capacity, 1 pint.

No. W1 ..... $11.70

Same pattern, larger size. Height, 9 inches. Diameter, 4⅛ inches. Capacity, 1 quart

No. W2 ..... $16.95



**SERVING TRAYS, ROUND (ON FEET)**

Thread border engraved center

| | | |
|---|---|---|
| No. W4106/3 | Diameter, 6 inches | $11.70 |
| No. W4110/3 | Diameter, 10 inches | 25.85 |
| No. W4112/3 | Diameter, 12 inches | 30.45 |
| No. W4114/3 | Diameter, 14 inches | 39.60 |
| No. W4118/3 | Diameter, 18 inches... | 65.00 |

Same as above, grape trimmed

| | | |
|---|---|---|
| No. W2906/7 | Diameter, 6 inches | $ 9.60 |
| No. W2910/7 | Diameter, 10 inches | 23.35 |
| No. W2912/7 | Diameter, 12 inches | 30.45 |
| No. W2915/7 | Diameter, 15 inches ... | 46.25 |
| No. W2917/7 | Diameter, 17 inches | 55.85 |
| No. W2920/7 | Diameter, 20 inches..... | 74.20 |

**ROUND CHOP DISH OR PLATTER**

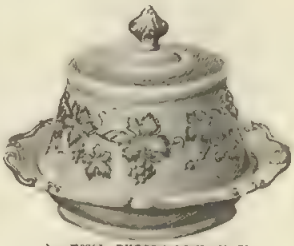
Grape trimmed, plain center

| | | |
|---|---|---|
| No. W2912/16 | Diameter, 12 inches | $20.85 |
| No. W2914/16 | Diameter, 14 inches | 26.85 |
| No. W2916/16 | Diameter, 16 inches... | 35.00 |

# Extra Quality Quadruple Silver Plated Teaware

**Manufactured and Guaranteed by Homan Manufacturing Co.**

No. H4063 **TEA CADDY—$10.35**
English grape design, burnished, ... inches.



No. H2967 **BUTTER DISH $16.70**
Cut glass drainer, English, chased, grape design, burnished, height 4⅞ inches.

No. H2967 **SYRUP AND PLATE—$18.35**
English chased grape design, burnished, height, 5¾ inches.

No. H2967 **SIX-PIECE TEA SET.** Finish ... grape design, burnish ... complete set as illustrated $142.50
No. H2967 **FIVE-PIECE TEA SET.** ... ... ... 90.00

**Separate pieces can be furnished at the following prices:**

| | | | | | |
|---|---|---|---|---|---|
| No. H2967 | Coffee Pot, height, 10¾ inches | each $24.60 | No. H2967 | Spoon Holder, gold lined, height 6¾ inches | each 13.30 |
| No. H2967 | ... | each 22.50 | No. H2967 | Waiter, 20 inches, with handles | each 52.50 |
| No. H2967 | Sugar Bowl, height, 5¾ inches | each 15.85 | No. H2967 | Hot Water Kettle, height, 13½ inches | each $48.00 |
| No. H2967 | Cream Pitcher, gold lined, height, 4⅞ inches | each $12.35 | | | |

# SHIP-LOGS

## "CHERUB" SHIP-LOGS

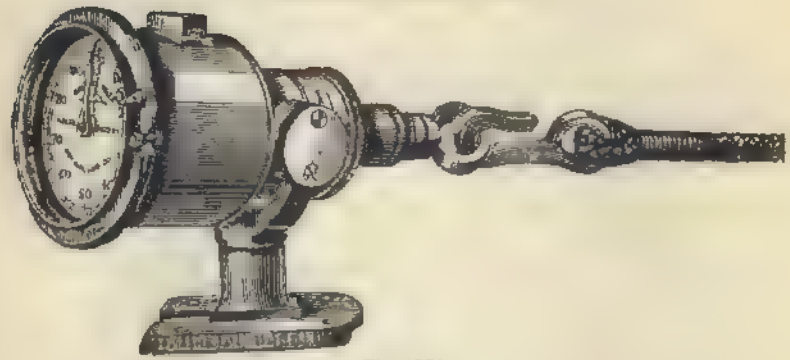


Fig. 1571

This is a very accurate and serviceable log, its construction is exceptionally strong, the working parts being of hardened steel and phosphor bronze. We do not recommend it for speeds above 10 knots.

The complete log, as illustrated, consists of register, two sinkers, two rotators and swivels, one hook and three grasses.

| | | |
|---|---|---|
| Price | ...each | 40.00 |

## KAY TAFFRAIL LOG

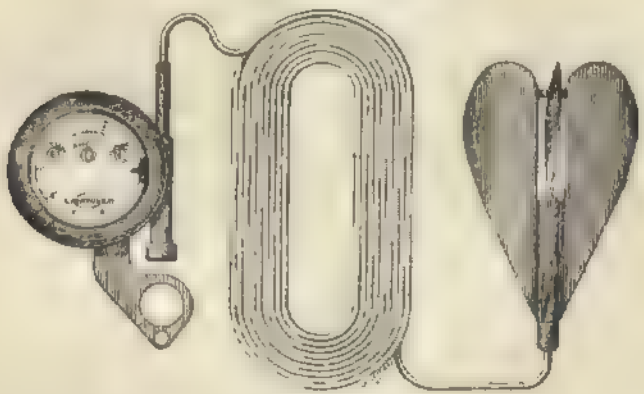


Fig. 1572

A first class and reliable log for use on small boats and launches. Illustration is about one-half the actual size.

| | | |
|---|---|---|
| Price | each | 5.00 |

# RUDDERS AND TILLER QUADRANTS

RUDDER AND QUADRANT

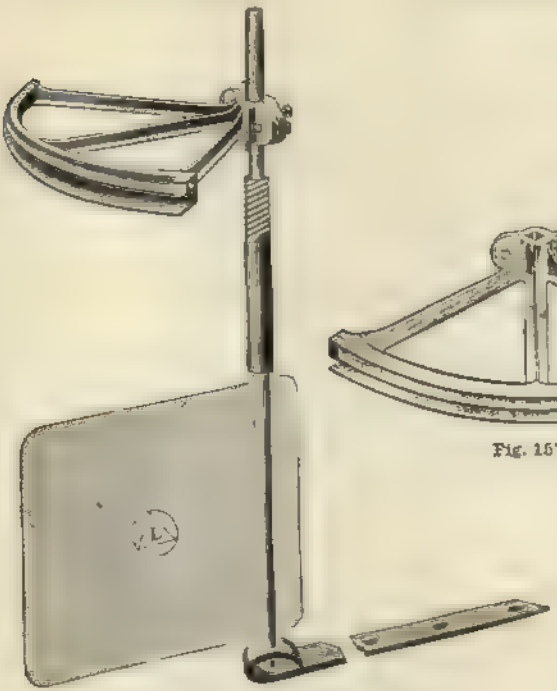


Fig. 1573

TILLER QUADRANT

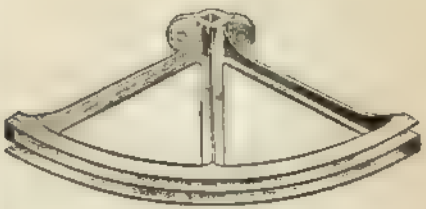


Fig. 1574

## RUDDERS AND QUADRANTS

| Number | | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|
| Size of plate | inches | 11x [illegible] | 13x [illegible] | [illegible]x15 | 17x17x$\frac{3}{16}$ |
| " " quadrant | " | 7 | 10 | 12 | 15 |
| Length of rudder post | " | 34 | 36 | 38 | 44 |
| Diameter of " | " | [illegible] | [illegible] | [illegible] | 1¼ |
| Length of pipe | " | 14 | 2 | 18 | 18 |
| For launches | feet | 12 to 14 | 15 to 18 | 19 to 25 | 26 to 40 |
| Price, galvanized | each | 8 00 | 9.00 | 11.50 | 13 00 |
| " Plain brass | " | 12 50 | 13.50 | 18.25 | 19.50 |

## TILLER QUADRANTS ONLY

| Number | | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|
| Radius | inches | 7 | 10 | 12 | 15 | 18 | 24 |
| Adjustable square bore | " | [illegible] to [illegible] | [illegible] to [illegible] | ¾ to 1 | [illegible] to 1¼ | 1 to 1⅜ | 1¼ to 1¾ |
| Price, galvanized | each | 1 50 | 2 00 | 2.50 | 3.50 | 5 00 | 12 50 |
| " Plain brass | " | 2.00 | 4.00 | 5.00 | 6.00 | 8 00 | .. |
| " Polished brass | " | 3 00 | 5 00 | 6 00 | 7 50 | 10 00 | .. |

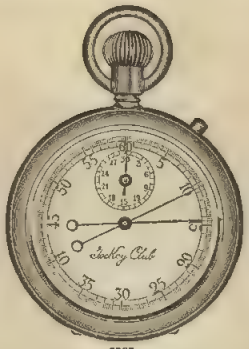
The scores are extra deep to prevent the rope from falling out.

# Timers, Chronographs and Novelties

**3966**

Nickel Open Face Horse Timer.

Start, Stop and Fly-Back controlled from the crown. Stem wind. Shows seconds and fifths. Has minute register working to the right. Nickel movement. Lever escapement. Glass under cap. White enamel dial ..... $16 00
Same with Chronometer Escapement ..... 12 00




**3967**

Nickel Open Face Split Timer.

Has Start, Stop and Fly-Back operated from crown, and split hand from the side plug. Stem wind. Shows seconds and fifths. Has minute register working to the right. Nickel movement. Lever escapement. Glass cap and white enamel dial ..... $40 00

**3968**

Lugrin's Patent Chronographs Thin Model.

Has start, stop and fly back attachment working from the crown. Beats fifths of seconds. Nickel movement, 15 jewels Cut expansion balance; Breguet hairspring. Quick train; Exposed Pallets, White Enamel Dial.

3968 Fitted in silver case ..... $45 00
4969 " " 20 year gold filled case 58 00
4970 " " 25 year gold filled case 68 00
3971 " " 14K Solid Gold ..... 150 00
Same with minute register, $12 00 extra.

**3972**

One Quarter Hour Repeaters.

Striking the hours and each succeeding one-quarter hour whenever desired.

Gilt, 15 Jewel Movement, with Cut Expansion Balance, Breguet Hairspring. Guaranteed accurate and reliable.

In Gun Metal Case with Gold Trimmings ..... $50 00

**3973**

Everyone is familiar with an alarm clock, but hardly anyone is familiar with an alarm watch.

The Energie fills not only all the requirements of the usual sleep disturber, but can be made useful in various ways.

To forget an important appointment at any hour of the day will be impossible with the aid of the Energie.

One is no longer at the mercy of a hotel employe or a sleepy maid, if a train must be caught.

The portability of the alarm watch is a great advantage.

The Energie is constructed to keep good time, and its handsome gun metal case makes it ornamental as well as useful.

The lid hinged on top will act as a stand.

To silence alarm, push pin to S. To set alarm turn bezel in direction of arrow, which will move brass hand on dial, and stop at the desired time.

Size is rather smaller than a 16 size watch ..... $16 00

**3974**

Perpetual Calendar Watch, denoting the month, day of month and day of week, also phases of the moon. Rich porcelain dial and fancy gold hands. Full jeweled nickel movement. Anchor escapement. Expansion balance. Quick train. Keeps perfect time ..... $12 50

**We Know This Business Thoroughly. We Show You Only Such Goods as Are UP-TO-DATE and Salable.**

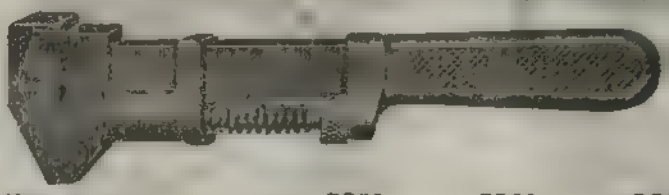
# WRENCHES

## *DIAMOND EDGE, KNIFE HANDLE

**Highest Grade Forged Steel,** One Piece Head and Bar, Oil Finished; Hardened Semi-steel Slide Bar and Handle Frame; Machine Cut Steel Screw with Knurled Head; Polished Hardwood Handle Sides, Set in Flush with the Metal and Riveted Through Frame.

| Nos. | DEK6 | DEK8 | DEK10 | DEK12 | DEK15 | DEK18 | DEK21 |
|---|---|---|---|---|---|---|---|
| Length, Inches | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
| Jaws Open, Inches | ⅞ | 1¼ | 1¾ | 2⅛ | 2⅝ | 3 | 4⅛ |
| Case Contains, Dozen | 6 | 6 | 6 | 6 | 3 | 2 | 1 |
| Weight of Case, Lbs | 63 | 110 | 169 | 255 | 187 | 175 | 123 |
| Per Dozen | $8 40 | 9 80 | 12 50 | 14 50 | 25 00 | 31 00 | 37.00 |

6 to 12 inch, Half Dozen, Other Sizes, Third Dozen in a Package.



## *DIAMOND EDGE, STEEL HANDLE

Forged Steel Head and Bar; Extra Heavy Semi-Steel Hardened Jaw; Semi-Steel Handles Riveted to Bar; **Handle Scored to Insure a secure Grip;** Oil Finish; made for use in Extra Severe Service and in Exposed Places, where Heat or Dampness would injure a Wood Handle.

| Nos | DEO6 | DEO8 | DEO10 | DEO12 | DEO15 | DEO18 | DEO21 |
|---|---|---|---|---|---|---|---|
| Length, Inches | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
| Jaws Open, Inches | ⅞ | 1¼ | 1¾ | 2⅛ | 2⅝ | 3 | 4⅛ |
| Weight per Dozen, lbs. | 9 | 16 | 26 | 43 | 62 | 89 | 121 |
| Case contains, Dozen | 6 | 6 | 6 | 6 | 3 | 2 | 1 |
| Weight of Case | 60 | 100 | 170 | 282 | 200 | 194 | 130 |
| Per Dozen | $9.40 | 9.80 | 12.50 | 14.50 | 25.00 | 31.00 | 37.00 |

6 to 12 inch, Half Dozen; Others, Third Dozen in a Package.

## COES KNIFE HANDLE

Forged Steel, One Piece Head and Bar, Oil Finished; Hardened Semi-steel Slide Bar and Handle Frame; Machine Cut Steel Screw, with Knurled Head; Hardwood Handle Sides, Secured at Both Ends by Insertion Under Metal and Riveted Under Pressure.

| Nos. | K6 | K8 | K10 | K12 | K15 | K18 | K21 |
|---|---|---|---|---|---|---|---|
| Length, Inches | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
| Jaws Open, Inches | ⅞ | 1¼ | 1¾ | 2⅛ | 2⅝ | 3 | 4⅛ |
| Weight per Dozen, Lbs. | 9 | 16 | 25 | 38 | 55 | 80 | 108 |
| Case Contains, Dozen | 6 | 6 | 6 | 6 | 3 | 2 | 1 |
| Weight of Case, Lbs. | 60 | 100 | 160 | 240 | 185 | 170 | 115 |
| Per Dozen | $9 00 | 10 00 | 12 00 | 14 00 | 24 00 | 30 00 | 36 00 |
| | 8 10 | 9 00 | 10 80 | 12 60 | 21 60 | 27 00 | 32 40 |

6 to 12 inch, Half Dozen, Other Sizes, Third Dozen in a Package.

## COES GENUINE STEEL HANDLE

Forged Steel Head and Bar; Extra Heavy Semi-steel Hardened Jaw; Semi-steel Handles Riveted to Bar; Oil Finish; Made for Use in Extra Severe Service and in Exposed Places, where Heat or Dampness Would Injure a Wood Handle.

**12 Inch and Larger Have Ball Bearing Adjusting Screws.**

| Nos | C6 | C8 | C10 | C12 | C15 | C18 | C21 |
|---|---|---|---|---|---|---|---|
| Length, Inches | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
| Jaws Open, Inches | ⅞ | 1¼ | 1¾ | 2⅛ | 2⅝ | 3 | 4⅛ |
| Weight per Dozen, Lbs | 9 | 16 | 26 | 43 | 62 | 89 | 121 |
| Case Contains, Dozen | 6 | 6 | 6 | 6 | 3 | 2 | 1 |
| Weight of Case, Lbs | 60 | 106 | 170 | 282 | 200 | 194 | 130 |
| Per Dozen | $9 00 | 10 00 | 12 00 | 14.00 | 24 00 | 30 00 | 36 00 |
| | 8 10 | 9 00 | 10 80 | 12.60 | 21.60 | 27.00 | 32.40 |

6 to 12 inch, Half Dozen, Others, Third Dozen in a Package

Bridge TRADE MARK

Bridge TRADE MARK

## AGRICULTURAL
## *BRIDGE TOOL CO.

Solid Wrought Iron Head, Bar and Shank; Wrought Iron Screw and Slide Jaw; Black Finish; Polished Malleable Iron Ferrule and Screw Cap on End of Shank; One Piece Polished Hardwood Handle.

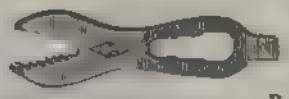
| Nos. | 6 | 8 | 10 | 12 | 15 |
|---|---|---|---|---|---|
| Length, Inches | 6 | 8 | 10 | 12 | 15 |
| Jaws Open, Inches | ⅞ | 1¼ | 1¾ | 2⅛ | 2⅝ |
| Weight per Dozen, Lbs. | 9 | 14 | 20 | 28 | 40 |
| Dozen in Case | 6 | 6 | 6 | 6 | 3 |
| Weight Case, Lbs. | 55 | 100 | 145 | 175 | 135 |
| Per Dozen | $10 00 | 12.00 | 14 00 | 17.00 | 24.00 |
| | 5.50 | 6.60 | 7 70 | 9.50 | 13.20 |

Half Dozen in a Package.

# WRENCHES

## * DIAMOND EDGE

Drop Forged Steel; Tempered and Polished Jaws; Natural Finish Body; Milled Teeth



Per Dozen

**No. DFP—Pocket, with Screw Driver** End; Length 4 inches; takes Round Iron up to ½ inch; Openings in Handle take Nuts ¼ 5/16 and ⅜ inch; Screw Driver and 5/16 inch Wide at Point, Weight per Dozen 1⅔ lbs. . . . . **$2.00**

One Dozen in a Box.

Per Dozen

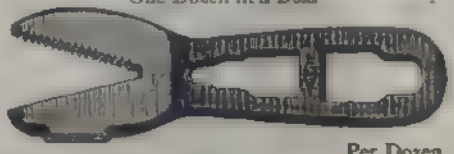
**No. DE1**—Length 5½ inches; takes Round Iron ¼ to ¾ inch; takes Pipe ⅛ to ⅜ inch; Openings in Handle Take Nuts ¼ to ¾ inch Outside Measurement; Weight per Dozen 3½ lbs . . . . . **$2.50**

One Dozen in a Box.

Per Dozen

**No. DE120**—Length 5½ inches; takes Round Iron ¼ to ¾ inch, takes Pipe ⅛ to ⅜ inch; Openings in Handle take Nuts ¼, ⅜, ½, ⅝ and ¾ inch Outside Measurement; Weight per Dozen 3 lbs . . . **$3.40**

One Dozen in a Box.



Per Dozen

**No. DE150**—Length 7 in; takes Round Iron ⅜ to 1¼ inches, takes Pipe ⅜ to 1 inch, Openings in Handle take Nuts ⅜, ½, ⅝, ¾ and ⅞ inch Outside Measurement; Weight per Dozen 10½ lbs . . . **$5.50**

Half Dozen in a Box.

Per Dozen

**No. GC1**—Length 5½ inches takes Round Iron ¼ to ¾ inch, takes Pipe ⅛ to ⅜ inch, Openings in Handle take Nuts ¼ to ¾ inch Outside Measurement; Weight per Dozen 3¾ lbs . . . . . **$2.00**

Half Dozen in a Box.

Per Dozen

**No. N**—Length 6½ in., takes Round Iron ¼ to ⅝ inch, takes Pipe ⅛ to ⅜ inch, Openings in Handle take Nuts ½, ⅝ and ¾ inch; Weight per Dozen 3½ lbs . . . . **$3.00**

Half Dozen in a Box.

## * DIAMOND EDGE

Drop Forged Steel; Tempered Jaws; Natural Finish Body; Polished Faces; Milled Teeth.

| Nos. | DE2 | DE3 | DE4 |
|---|---|---|---|
| Length, Inches | 9 | 15 | 22 |
| Takes Round Iron, Inches | ½ to 1 | ⅝ to 1⅜ | 1½ to 2½ |
| Takes Pipe, Inches | ⅜ to ¾ | ½ to 1¼ | 1¼ to 4 |
| Weight per Dozen, lbs. | 11 | 38 | 75 |
| Per Dozen | $8.80 | 14.00 | 19.50 |

No. DE2, Half Dozen in a Box; Others Loose.

Per Dozen

**No. DET Twin**; Length 10 inches; takes Round Iron ¾ to 1 inch; takes Pipe ⅜ to ¾ inch. Weight per Dozen 15 lbs **$11.00**

Half Dozen in a Box.

## * DIAMOND EDGE

Solid Drop Forged Steel, Oil Tempered; Scored Body; Natural Finish; Raised Jaws; Milled Teeth.

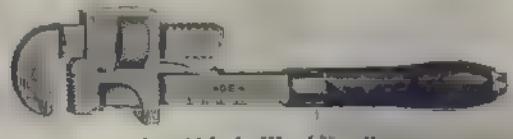
| Nos. | DE55 | DE65 |
|---|---|---|
| Length, Inches | 5 | 7 |
| Takes Round Iron, Inches | ¼ to ¾ | ¼ to 1¼ |
| Weight per Dozen, lbs. | 6 | 13 |
| Per Dozen | $5.20 | 6.00 |

Half Dozen in a Box

ALWAYS READY

Full Nickel Plated, Drop Forged, Oil Tempered, Milled Jaws.

| Nos. | AR1 | AR2 | AR2½ |
|---|---|---|---|
| Length, Inches | 5 | 7 | 9 |
| Takes Round Iron, Inches | ¼ to ¾ | ¼ to 1¼ | ¼ to 1¾ |
| Weight per Dozen, Lbs. | 6 | 13 | 22 |
| Per Dozen | $6.00 | 6.75 | 10.50 |
| | 6.00 | 7.50 | 11.50 |



6 to 14 inch, Wood Handle

18 to 48 inch, Steel Bar

## * DIAMOND EDGE COMBINATION NUT AND PIPE

Highest Grade Drop Forged Tool Steel, Polished Shank, Forged Jaws, Quick Acting Hand Hammered Finished Hardwood Handle with Shank Extending Through with Nut Cap on End, 18 to 48 inch Have Steel Handle, Lengths 6, 8, 10 and 48 inch Have Single Spring, Lengths 10, 14 and 24 inch Have Double Spring.

| Nos. | DEX6 | DEX8 | DEX10 | DEX14 | DEX18 | DEX24 | DEX36 |
|---|---|---|---|---|---|---|---|
| Length, Inches | 6 | 8 | 10 | 14 | 18 | 24 | 36 |
| Takes Pipe, Inches | ⅛ to ¾ | ⅛ to 1 | ⅛ to 1¼ | ¼ to 1⅝ | ¼ to 2⅛ | ¼ to 2⅝ | ½ to 4 |
| Weight Each, Lbs. | ¼ | 1 | 2 | 3½ | 6 | 10 | 15 |
| Each | $1 10 | 1 10 | 1.25 | 1 65 | 2 20 | 3.30 | 5.00 |

6 to 24 inch, Six in a Wood Box; 36 to 48 inch, Loose

*"DIAMOND EDGE IS A QUALITY PLEDGE"*

# COLONIAL SERIES

Cherry (Mahogany Finish) and Old Oak. Strong, Durable Cases. Height, 18 inches. Eight-Day, Hour and Half-Hour Strike. Wire Bell. 6-inch Plain Dial.
Packed and sold only in assortments of 6 clocks, consisting of 3 Cherry and 3 Old Oak.

**SHELF ASSORTMENT**

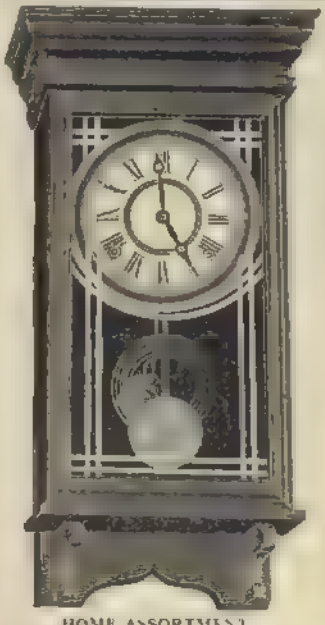
Seth Thomas

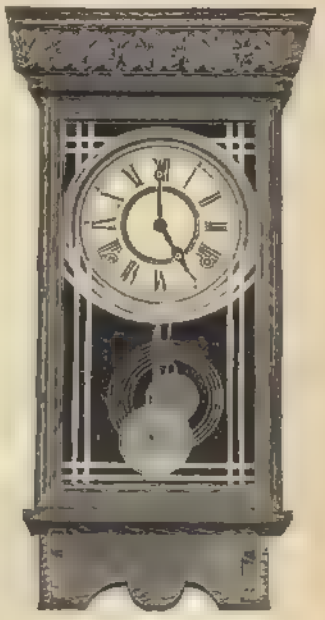
| | | |
|---|---|---|
| No. 30 | Six Clocks, Strike | $24 00 |
| No. 31 | Three Clocks, Strike | 15 80 |
| | Three Clocks, Strike and Alarm | 25 80 |
| No. 32 | Six Clocks, Strike and Alarm | 37 60 |

# SESSIONS CLOCKS

**HOME ASSORTMENT**

[illegible] clock [illegible] [illegible] [illegible] [illegible] [illegible] size for household use.
Packed [illegible] [illegible] assortment of six clocks.



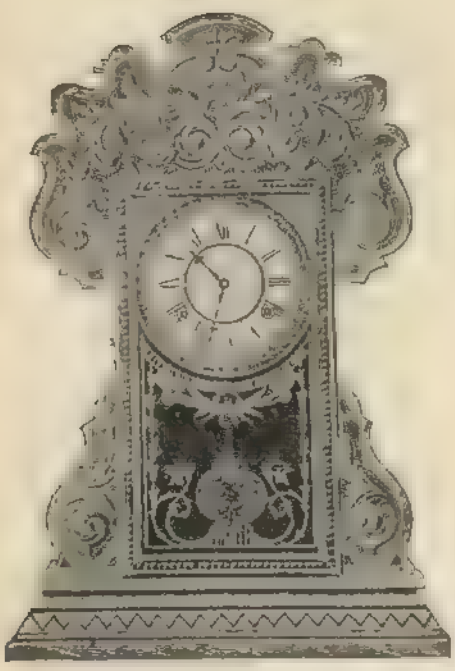


**HOME ASSORTMENT**

[illegible] [illegible] [illegible] [illegible] [

# RELIABLE KITCHEN CLOCK ASSORTMENT

## H. AND F. LINE MADE BY THE WATERBURY CLOCK CO. Six in a Case. Sold by Case only



| | | |
|---|---|---|
| Six Patterns. | Assorted Oak. All Strike | $18 60 |
| Six Patterns. | Assorted Oak, Three Strike, Three Alarm | 20 10 |
| Six Patterns. | Assorted Oak, All Strike, All Alarm | 21 60 |
| Eight-day. | Half-hour strike. 6-inch Rococo dial. Height, 22 inches. | |

# COLT AUTOMATIC PISTOLS

The Action of all Colt Automatic Pistols is Automatic, Except that the Trigger Must be Pulled to Fire Each Shot; the Cartridges Being Supplied from a Detachable Magazine, Inserted in the Handle of the Pistol. After the Pistol is Charged with a Filled Magazine, One Opening Movement is Made by the Hand, Bringing the First Cartridge into the Chamber. On Pulling the Trigger the Cartridge is Fired, the Empty Shell is Extracted and a New Cartridge Loaded into the Chamber, all these Operations Taking Place Automatically Without any Manipulation of the Arm. This Automatic Operation of the Pistol is Effected by the Recoil of the Moving Parts and, as a Consequence, the Recoil is so Absorbed in being Utilized that it has no Disturbing Effect. The First Shot Can be Discharged More Quickly than from any Arm Made, as this Pistol Can be Carried with Perfect Safety while the Hammer is at Full Cock.

## POCKET MODEL

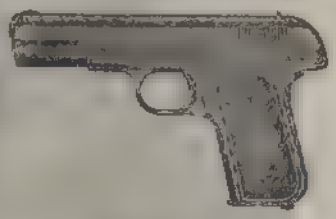
### HAMMERLESS

**Safety.**—Besides the Safety in the Action, which Does not Permit Hammer to be Released Unless Action is Fully Closed, this Arm has Two Additional Operating Safeties

The Slide Lock Indicates When the Arm is Cocked, and, when Engaged in the Slide Cut, Locks the Trigger from Action. Operating Mechanism for Safety Lock is Entirely Drawn Down by the Hand When One Desires to Shoot.

(2) An Automatic Safety, also Acting as an Indicator, Locks the Action Until the Handle is Firmly Grasped when Pulling the Trigger.

It will thus be seen that there are Two Indicators Showing when the Hammer is Cocked; and there are Two Safeties, Either of which is Absolutely Positive, One of which is Automatic.



Cut Shows Nos. 2323¾AA and 2380¾AA

### 25 CALIBER VEST POCKET

Capacity of Magazine 6 Shots; 2 inch Barrel; Slide Lock Safety and Grip Safety; Length Over All 4½ inches; Shoots 25 Automatic Colt, Rimless, Smokeless Cartridges; Weight 13 ozs.

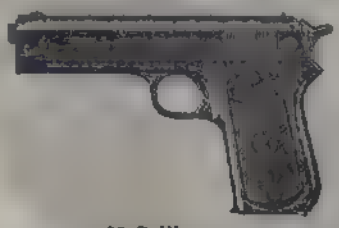
| | Each |
|---|---|
| **No. 2252AA—25 Caliber;** Full Blued with Case Hardened Trigger; Rubber Handle | **$20 00** |
| **No. 2252AP—25 Caliber;** Full Blued; **Pearl Handle** | **23 00** |
| **No. 252AA—25 Caliber;** Full Nickel Plated; Rubber Handle | **20 00** |
| **No. 252AP—25 Caliber;** Full Nickel Plated, Pearl Handle. | **23 00** |

### REGULAR POCKET

Three and Three-quarter inch Barrel; Rubber Handle, Full Blued; Length Over All 6¾ inches, Weight 25 ozs.

| | Each |
|---|---|
| **No. 2323¾AA—32 Caliber;** 8 Shots; Shoots 32 Automatic Colt, Rimless, Smokeless Cartridges | **$26 00** |
| **No. 2323¾AP—32 Caliber; Pearl Handle,** Otherwise Same as No. 2323¾AA | **32 00** |
| **No. 2380¾AA—380 Caliber;** 7 Shots, Shoots 380 Automatic Colt, Rimless, Smokeless Cartridges | **30 00** |

### HAMMER



**38 Caliber**

Capacity of Magazine 7 Shots; 4½ inch Barrel; Rubber Handle; Full Blued; Length Over All 7½ inches; Weight 32 ozs.

| | Each |
|---|---|
| **No. 2384½AA—38 Caliber;** Shoots 38 Automatic Colt, Rimless, Smokeless Cartridges | **$34 00** |

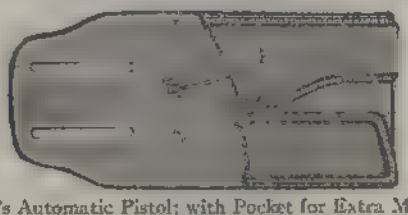
### MILITARY MODEL

In this Model the Slide Remains Open After Firing the Last Cartridge. When Reloading the Arm in this Position, Insert the Magazine, then Press Downward the Slide Stop (to the Rear of the Trigger, as Illustrated). The Slide Goes Forward, Inserting a Cartridge without any Movement of the Slide by Hand. The Slide Stop is Operated by the Thumb of the Hand Holding the Pistol.

Capacity of Magazine, 9 Shots; 5 inch Barrel; Rubber Handle; Wt. 38½ ozs. Length Over All 9 inches; Full Blued

| | Each |
|---|---|
| **No. 2398MA—38 Caliber;** Shoots 38 Automatic Colt, Rimless, Smokeless Cartridges | **$36 00** |

## LEATHER PISTOL HOLSTERS



For Colt's Automatic Pistol; with Pocket for Extra Magazine

| | Per Dozen |
|---|---|
| **No. A25**—For 25 Caliber; Weight per Dozen 3 lbs. | **$9 00** |
| **No. A32**—For 32 Caliber; Weight per Dozen 3 lbs. | **10 00** |
| **No. A38**—For 38 Caliber; Weight per Dozen 3½ lbs. | **12 00** |
| **No. A45**—For 45 Caliber, Weight per Dozen 3½ lbs. | **14 00** |

### GOVERNMENT MODEL

The action of this Pistol is Automatic, except that the Trigger must be pulled to fire each Shot; the Cartridges being supplied from a Detachable Magazine, inserted in the Handle of the Pistol. After the Pistol is charged with a filled Magazine, One Opening Movement is made by the Hand, bringing the first Cartridge into the Chamber. On pulling the Trigger the Cartridge is fired, the empty Shell is extracted and a new Cartridge Loaded into the Chamber, all these Operations taking place automatically without any manipulation of the arm. This automatic operation of the Pistol is affected by the recoil of the moving parts and as a consequence the Recoil is so absorbed in being utilized that it has no disturbing effect. The first Shot can be discharged more quickly than from any Arm made, as this Pistol can be carried with perfect safety while the Hammer is at full cock. Capacity of Magazine 7 Shots, Full Blued Finish with Checkered Walnut Stocks; Length of Barrel 5 inches; Length over all 8½ inches; Weight 39 ounces.

| | Each |
|---|---|
| **No. 2455A—45 Caliber;** Shoots 45 U. S. Government, 230 Grain Bullet; both Rimless and Smokeless Powder Full Jacketed Bullets | **$37 00** |

## COLT AUTOMATIC CARTRIDGES

### SMOKELESS

| | Per 1,000 |
|---|---|
| **25 CALIBER** | |
| **SM25 Automatic Pistol**—Full Metal Patched | $16.50 |
| **SS 25 Automatic Pistol**—Soft Point | 16 50 |
| **32 CALIBER** | |
| **SM32 Automatic Colt**—Full Metal Patched | 18.00 |
| **SS 32 Automatic Colt**—Soft Point | 18 00 |
| **380 CALIBER** | |
| **SM380 Colt Automatic**—Full Metal Patched | 25 00 |
| **SS 380 Colt Automatic**—Soft Point | 25.00 |
| **38 CALIBER** | |
| **SM38 Colt Automatic**—Full Metal Patched | 26.00 |
| **SS 38 Colt Automatic**—Soft Point | 26 00 |
| **45 CALIBER** | |
| **SM45 Automatic Colt**—Full Metal Patched | 30.00 |

Fifty in a Box

# *DIAMOND EDGE SAFETY RAZORS

**Frames and Handles.**—Knowing that the *DIAMOND EDGE* Blade will Shave any Man Properly Ground on the Face, a Perfect Frame and Handle has been Developed which is Simple in Itself. **All Made of 18 per cent German Silver, and are Proof Against Rust;** Other Razors are either Enameled Iron or Steel Frames, which Rust or Brass Frames which are Liable to Collect Verdigris, a Poison. Handle Finely Knurled. The Edge is Thoroughly Protected from Corners of Blade by a Small Projection on each End of Frame Guard.

**Blades.**—Made of the Very Highest Grade Swedish Steel, Manufactured and Rolled in Sweden; Tempered by an Electric Process, which Guarantees a Perfect and Even Temper; **Hollow Ground** on One Side, and Finely Polished; Straight Bevel Ground on the Other Edge; the Edging Done by an Exclusive Process. Every Blade has a Perfect Shaving Edge and Fully Passes the Hair Test.

**Stropper.**—Note the Projecting Rim on the End of the Handle; Turn this Slightly to the Left and Withdraw the Stropper; Remove the Razor Blade from the Handle. Screw the Stropper on in Place of the Frame; now Insert the Blade and the Stropper is Ready for Use on any Safety Razor Strop. Easily Operated and Quickly Adjusted.

**Why Strop?**—All Fine Edges Dull with Use. Next to our Exclusive Process of Edging the Blade, Stropping is Most Advisable. Our *DIAMOND EDGE* Blades are Good for a Number of Shaves, but their Life and Usefulness can be Prolonged by Stropping. It is well to Strop a little Before and After Using any Razor or Blade.

**How to Shave.**—To Shave Easily and Safely, First Clean the Face Thoroughly. Every Hair is Surrounded by a Hard Substance that should be Softened. Soap and Water Dissolve this Substance. After Washing Well Wipe the Face. Then, with the Shaving Brush Work up a Good Lather on the Face—Not a Dry Foam, but a Real Soap-and-Water Lather.

Set the *DIAMOND EDGE* Safety Razor with the Hollow Ground Side Up, Set Against Face so that the Edge Engages the Beard—then Draw Slowly, Gently, and in Short Easy Strokes. The Stroke must be Short, Easy and Oblique to get Satisfaction from any Safety Razor. This Stroke will be Learned after Using a few Times. Don't try to Shave with Long Sweeping Strokes, as this is not the way to Shave with any Razor. One need not be Afraid of Cutting the Face with a *DIAMOND EDGE* Safety Razor, as all Points are Carefully Guarded.

Should the Close Shave be Desired, Reverse the Blade, Turning the Hollow Ground Side Under. This Reversing of the Blade is not Absolutely Necessary, for one can go over the Face a Second Time with the Hollow Ground Edge Up, and Remove any Hair that may Have Been Missed the First Time.

*"DIAMOND EDGE IS A QUALITY PLEDGE"*

# REVOLVERS

## COLT

Colt's Army Special Positive, Colt's New Service Positive and Colt's Model Target Positive Revolvers are fitted with the Colt Positive Lock which absolutely prevents accidental discharges; the positive lock is arranged between the face of the hammer and the frame; operating automatically only when the trigger is pulled and at all other times prevents the firing pin from coming in contact with the cartridges thereby making accidental discharge impossible; should the revolver be dropped, striking the hammer or if by any other means a blow be delivered to the hammer, discharge cannot occur, if, when cocking, the hammer should slip, it cannot come in contact with the cartridge

### ARMY SPECIAL POSITIVE, DOUBLE ACTION; .41 FRAME

**32-Winchester Caliber**

Case hardened, jointless, solid frame, simultaneous ejector; 6-shot; rubber stock; blued finish

| Nos. | S26C | S27C | S28C |
|---|---|---|---|
| Length, barrel, inches | 4½ | 5 | 6 |
| Extreme length, inches | 9¾ | 10¼ | 11¼ |
| Weight, oz. | 36 | 36 | 37 |
| Each | $26 00 | 26 00 | 26 00 |

**.38-Colt Caliber**

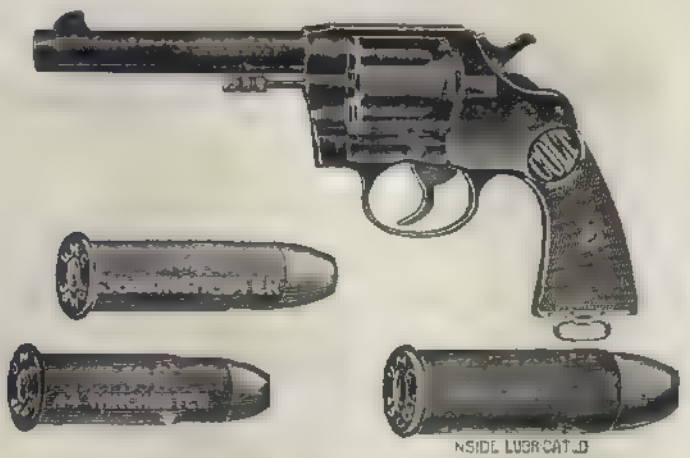
Chambered for .38 short Colt, .38 long Colt and .38 S. & W. special cartridges; blued finish.

| Nos. | S29C | S30C | S31C |
|---|---|---|---|
| Length, barrel, inches | 4½ | 5 | 6 |
| Extreme length, inches | 9¾ | 10¼ | 11¼ |
| Weight, oz. | 34 | 34½ | 35 |
| Each | $26 00 | 26 00 | 26 00 |

**.41-Colt Caliber**

Chambered for .41 short Colt and .41 long Colt cartridges; blued finish

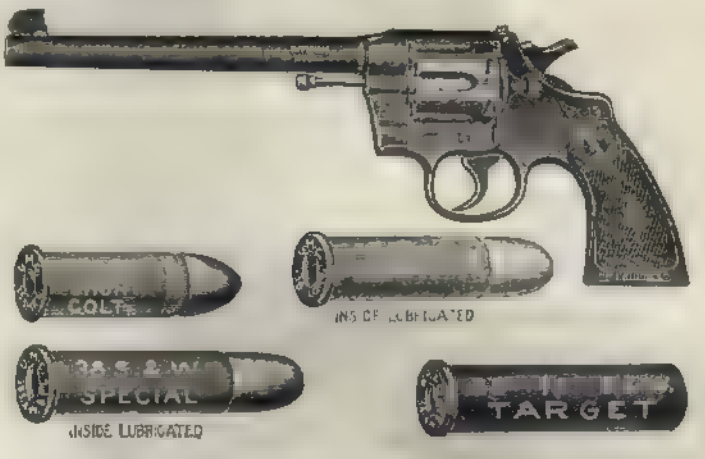
| Nos. | S32C | S33C | S34C |
|---|---|---|---|
| Length, barrel, inches | 4½ | 5 | 6 |
| Extreme length, inches | 9¾ | 10¼ | 11¼ |
| Weight, oz. | 34 | 34½ | 35 |
| Each | $26 00 | 26 00 | 26 00 |




### NEW SERVICE, POSITIVE, DOUBLE ACTION; .45 FRAME

Case hardened, jointless, solid frame; simultaneous ejector; 6 shots, rubber stock with belt loop; blued finish.

| | Each |
|---|---|
| **.38-Winchester Caliber** | |
| No. S45C 5½-inch barrel, extreme length 10¾ inches, weight 40 oz. | $28.00 |
| **.44-Winchester Caliber** | |
| No. S43C—5½-inch barrel; extreme length 10¾ inches; weight 40 oz. | 28 00 |
| **.45-Colt Caliber** | |
| No. S45C—5½-inch barrel; extreme length 10¾ inches; weight 40 oz. | 28.00 |




### OFFICERS' MODEL TARGET; POSITIVE, DOUBLE ACTION

Case hardened, jointless, solid frame; simultaneous ejector; 6 shots; front sight adjustable for elevation, rear sight with adjusting screw, adjustable for windage; walnut stock; shoots .38 short Colt, .38 long Colt, 38 S & W special and 38 S & W. target full and gallery load; blued finish.

| | Each |
|---|---|
| **.38-Caliber** | |
| No. S91C 6 inch barrel; extreme length 11½ inches; weight 33½ oz. | $32.00 |
| No. S94C 7½ inch barrel; extreme length 13 inches; weight 35 oz.; otherwise same as No. S91C | 32.00 |

Packed, all above; one in box.

# REVOLVERS

## COLT

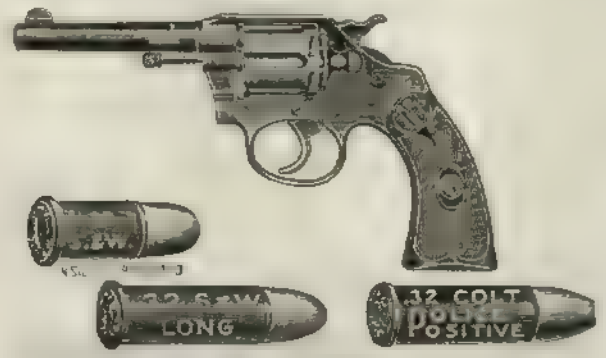
Colt's Police Positive, Colt's Police Positive Special and Colt's New Pocket Positive Revolvers are all fitted with the Colt positive lock, which absolutely prevents accidental discharge. The positive lock is arranged between the face of the hammer and the frame, operating automatically only when the trigger is pulled, and at all other times preventing the firing pin from coming in contact with the cartridge, thereby making accidental discharge impossible. Should the revolver be dropped, striking on the hammer, or if by any other means a blow be delivered to the hammer, discharge cannot occur If, when cocking, the hammer should slip, it cannot come in contact with the cartridge.

### NEW POCKET POSITIVE; DOUBLE ACTION; .32 FRAME

.32-Caliber

Case hardened, jointless, solid frame; simultaneous ejector; 6 shots; rubber stock; shoots .32 S. & W., 32 S. & W. long and .32 Colt Police Positive.

| | Each |
|---|---|
| Blued finish. | |
| No. 858C—3½-inch barrel; extreme length 7½ inches; weight 18 oz. | $22.00 |
| Nickeled finish | |
| No. 859C—3½-inch barrel; extreme length 7½ inches; weight 18 oz. | 22 00 |




### POLICE POSITIVE DOUBLE ACTION; .32 FRAME

.32-Caliber

Case hardened, jointless, solid frame; simultaneous ejector; 6 shots; rubber stock; shoots .32 S. & W., .32 S. & W. long and .32 Colt Police Positive; blued finish

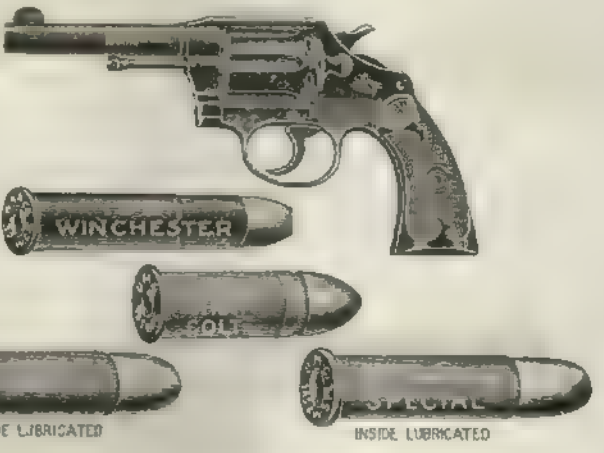
| Nos. | S60C | S61C | S62C |
|---|---|---|---|
| Length barrel, inches | 4 | 5 | 6 |
| Extreme length, inches | 8½ | 9½ | 10½ |
| Weight, oz. | 18 | 18 | 19 |
| Each | $24.00 | 24.00 | 24 00 |

### POLICE POSITIVE TARGET; .32 FRAME

.22-Caliber

Case hardened, jointless, solid frame; simultaneous ejector; 6 shots; rubber stock; blued finish.

| | Each |
|---|---|
| No. 892C—6-inch barrel; shoots .22 Winchester; extreme length 10¼ inches; weight 22 oz. | $26 00 |
| No. 893C—6-inch barrel; shoots .22 short, .22 long; extreme length 10¼ inches; weight 22 oz. | 26.00 |




### POLICE POSITIVE SPECIAL; .38 FRAME

32-Caliber

Case hardened, solid frame; simultaneous ejector; 6 shots; rubber stock; shoots .32-Winchester; blued finish.

| Nos. | S63C | S64C | S65C |
|---|---|---|---|
| Length barrel, inches | 4 | 5 | 6 |
| Extreme length, inches | 8¾ | 9¾ | 10¾ |
| Weight, oz. | 22 | 22 | 23 |
| Each | $24.00 | 24.00 | 24.00 |

.38-Caliber

Shoots 38 short Colt, .38 long Colt, and 38 S. & W. Special (full and gallery loads); otherwise same as above.

| Nos. | S66C | S67C | S68C |
|---|---|---|---|
| Length barrel, inches | 4 | 5 | 6 |
| Extreme length, inches | 8¾ | 9¾ | 10¾ |
| Weight, oz. | 22 | 22½ | 23 |
| Each | $24 00 | 24 00 | 24 00 |

Packed, all above; one in box.

# HIGH GRADE CRYSTAL REGULATORS

PRICES EACH

**Rouen**
**Polished Brass $31 35**
**Gold Plate 33 75**
Ansonia
Height, 11 inches; width, 6¾ inches. Eight-day, half-hour strike. Cathedral gong. 4½-inch porcelain dial. Visible escapement. Bevelled plate glass front, sides and back.

**Elysian $30 00**
Ansonia
Polished in rich gold. Height, 16¼ inches, width 8¾ inches. Eight-day, half-hour strike. Cathedral gong. 4½-inch porcelain dial, visible escapement. Bevelled plate glass front, sides and back.

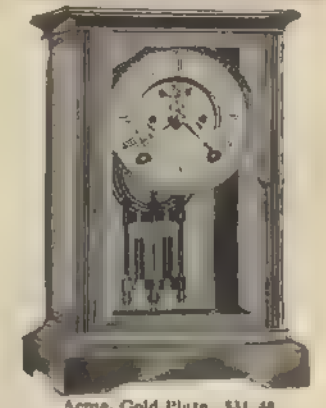
**Empire No. 1 $25 00**
Seth Thomas
Polished gold finish, height 14 inches, width 6½ inches. Eight-day, half-hour strike. Cathedral gong. Bevelled plate glass front, sides and back.

**Coral Gold Finish $26 40**
Ansonia
Height, 9¾ inches; width, 6¾ inches. Eight-day, half-hour strike. Cathedral gong. 4½-inch porcelain dial, visible escapement. Bevelled plate glass front, sides and back.

**Dawson**
**Polished Brass $22 25**
**Gold Plated 23 25**
Ansonia
Height, 9¾ inches; width 5½ inches. 3-inch porcelain dial. Eight-day, half-hour strike. Cathedral gong. Bevelled plate glass front, sides and back.

**Prism**
**Polished Brass $25 00**
**Roman Gold 27 40**
Ansonia
Height, 10¾ inches; width, 6¾ inches. Eight-day, half-hour strike. Cathedral gong. 4½-inch porcelain dial, visible escapement. Bevelled plate glass front, sides and back.

**Wanda $29 00**
Ansonia
Height, 11¼ inches; width 6¾ inches. Eight-day, half-hour strike. Cathedral gong. 4½-inch porcelain dial, visible escapement. Polished gold finish. Bevelled plate glass front, sides and back.



**Acme, Gold Plate $31 40**
Ansonia
Height, 10¾ inches, width, 6¾ inches. Eight-day, half-hour strike. Cathedral gong. 4½-inch porcelain dial, visible escapement. Bevelled plate glass, front, sides and back.

# CUCKOO CLOCKS

**FRONT OF CASES MADE OF THREE LAYERS OF WOOD—PRICES EACH**

**No. 45 Quail and Cuckoo Clock $20 00**
Height 21 inches, width, 14 inches, depth 5 inches. Quarter hour strike and call. Solid walnut case, with inlaid and ebony and mahogany ornaments. Three-quarter size movement.

**No. 24 Cuckoo Clock $17 50**
Height 2[illegible] inches, width 15 inches, depth 5½ inches. Hour strike and call. Solid walnut. Large size movement.

**No. 33 Cuckoo Clock $14 50**
Height 19 inches, width 14 inches, depth 5½ inches. Hour strike and call. Solid walnut. Large size movement.

**No. 44 Cuckoo Clock $8 80**
Height 9 inches, width 12 inches. Hour strike and call. Quarter hour chime. Solid walnut with inlaid and ebony and mahogany ornaments. Small size movement.

**No. 55 Cuckoo Clock $9 80**
Height 12 inches, width, 14 inches, depth 5½ inches. Hour strike and call. Solid walnut case with inlaid ebony and mahogany ornaments. Large size movement.

**No. 37 Cuckoo Clock $11 50**
Height 2[illegible] inches, width 15 inches, depth 6½ inches. Hour strike and call. Solid walnut with inlaid and ebony ornaments. Large size movement.

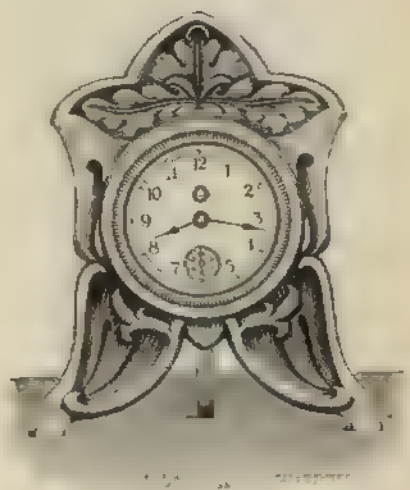
# RELIABLE ORMOLU GOLD PLATED CLOCKS

MADE BY THE NEW HAVEN CLOCK CO.

ONE-DAY TIME—PRICES EACH

**Baroda $5 50**
One-day. Height, 9¾ inches; width 7 inches. 2-inch porcelain dial. Ormolu gold plate.

**Daphne $2 00**
One-day. Height, 5¾ inches; width, 3¼ inches. 2-inch white dial. Ormolu gold plate.



**Delong $2 00**
One-day. Height 5½ inches, width, 4⅜ inches. 2-inch white dial. Ormolu gold plate.

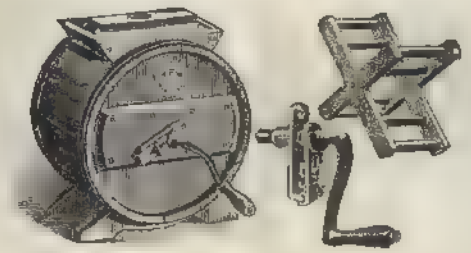
**Nathalie Easel Back $1 90**
One-day. Height, 5½ inches; width 3⅝ inches. 2-inch white dial. Ormolu gold plate.

**Bermuda $5 25**
One-day. Height 7⅝ inches, width 6⅛ inches. 2-inch porcelain dial.

**Devon $3 40**
One-day. Height 5¾ inches, width, 4⅛ inches. 2-inch porcelain dial. Ormolu gold plate.

**Hazel $1 70**
One-day. Height 4⅝ inches, width 3¼ inches. 2-inch white dial. Ormolu gold plate.

# CHURNS



Nos 401 to 404

### IMPROVED CYLINDER

Made of white cedar; double dasher; crank locked to churn with clamp and thumb screw, which prevents leakage; galvanized iron hoops; all castings tinned, making them rustproof and sanitary; large top; dasher easily removed.

| Nos. | 401 | 402 | 403 | 404 |
|---|---|---|---|---|
| Gallons | 3 | 4 | 7 | 10 |
| Weight, lbs. | 13 | 17 | 20 | 24 |
| Each | $3 80 | 4.60 | 5.30 | 6.00 |

Packed, one in crate.

### IMPROVED UNION

White wood; heavy stave bottom; adjustable hoops; ventilating covers; double acting dasher.

| Nos. | 501 | 502 | 503 |
|---|---|---|---|
| Gallons | 5 | 7 | 10 |
| Height, inches | 32½ | 32½ | 32½ |
| Weight, lbs. | 28 | 33 | 40 |
| Each | $8 50 | 9.50 | 11.50 |

Packed, one in crate.

Nos. 501 to 503

Nos. 10 to 40

No. 2

No. 1

No. 4

### DAZEY

Owing to the shape of the tank and paddles on the dasher, the cream is thrown upward into each corner of the tank, and as it strikes these corners it is thrown back into the paddles, thus making it a double acting agitator; again owing to the rapid revolution of the dasher, caused by the high gear of the machine, a very rapid agitation is produced which causes the butter to form into small grains. This granular form of the butter makes it very easily washed. After the butter has been churned and the remaining milk drawn off from the bottom, water may be poured into the top of the tank and the butter then washed by the same movement of the dasher as used when churning.

### GLASS

Aluminum coated castings, heavy nickel cap which screws on body; hardwood turbine dasher.

| Nos. | 10 | 20 | 30 | 40 |
|---|---|---|---|---|
| Capacity, pints | 3 | 5 | 7½ | 9 |
| Churning capacity, pints | 2 | 2½ | ¼ | 4½ |
| Height, inches | 11 | 12 | 13 | 14 |
| Jar, inches | 3⅝x7⅛ | 4¾x8 | 5½x8½ | 6x9 |
| Weight per dozen, lbs. | 60 | 85 | 116 | 135 |
| Dozen | $19 00 | 26 50 | 32 50 | 45 00 |

Packed, one in crate.

### EXTRA JARS

| Nos. | 10J | 20J | 30J | 40J |
|---|---|---|---|---|
| Weight per dozen, lbs | 40 | 55 | 80 | 90 |
| Dozen | $4.20 | 7.00 | 9.50 | 13.20 |

Loose.

### METAL

IX charcoal tin tank, blue enameled on outside; base, frame and gearings made of cast iron, aluminum finish, two piece maple cover, varnished; nickel plated drain faucet complete with floating glass thermometer and butter scoop.

| Nos | 2 | 3 | 4 |
|---|---|---|---|
| Capacity, gallons | 3 | 6 | 16 |
| Churning capacity, gallons | 2 | 4 | 12 |
| Height, inches | 23 | 31 | 47 |
| Weight, lbs. | 17 | 37 | 100 |
| Each | $4.70 | 7.90 | 25.00 |

Packed, one in crate.

# CHURNS

### TIN DASH

Hand made throughout of IX tin; double seamed bottom with reinforced rim on outside and wired edge; top rim turned over and wired; side handles; close fitting cover with deep rim which fits on inside of churn body; hardwood dasher; can also be used for cream can.

| Nos. | 300 | 400 | 500 |
|---|---|---|---|
| Gallons | 3 | 4 | 5 |
| Diameter, inches | 7½ | 8¼ | 9 |
| Height, inches | 18 | 19¼ | 19½ |
| Weight per dozen, lbs. | 43 | 54 | 60 |
| Dozen | $13.50 | 14.00 | 14 50 |

Packed, one in package

### CEDAR DASH

White cedar; flat steel top hoop, wire center and bottom hoops, electric welded; hoops all galvanized.

| Nos. | 3 | 5 |
|---|---|---|
| Gallons | 3 | 5 |
| Diameter top, inches | 7 | 9 |
| Diameter bottom, inches | 9¾ | 12 |
| Height, inches | 16 | 20 |
| Weight per dozen, lbs. | 62 | 84 |
| Dozen | $17.00 | 21 50 |

Packed, one-half dozen in crate

### ANTI-BENTWOOD

Constructed of first quality lumber; body rabbeted into ends and put together under hydraulic pressure; patent adjustable hooks, motion internal gear; body held together by steel rods; one-piece legs screwed on; 10-inch cog wheel.

| | Each |
|---|---|
| No. 702—Capacity 7½ gallons; height 30½ inches; floor space 18½x20 inches; weight 40 lbs. | $ 9.00 |

Packed, one in crate.

### BENTWOOD

Bottom made of one piece selected ash, bent into shape; sides and cover made of selected poplar, thoroughly seasoned and fitted into grooves in end; rock maple dasher; one piece legs screwed on; 10-inch cog wheel.

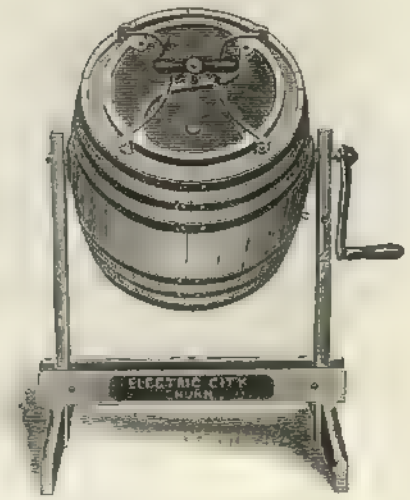
| Nos. | 602 | 601 | 600 | 6000 |
|---|---|---|---|---|
| Gallons | 4 | 6 | 9 | 12 |
| Height, inches | 32 | 32 | 32 | 32 |
| Weight, lbs. | 44 | 47 | 55 | 60 |
| Each | $10.50 | 11.50 | 12.50 | 13.50 |

Packed, one in crate.

### REPAIRS FOR BENTWOOD CHURNS

Crank Wheels

| Nos. | 602W | 601W | 600W | 6000W |
|---|---|---|---|---|
| Weight, lbs. | 3½ | 3½ | 3½ | 3½ |
| Each | $2.00 | 2.00 | 2.00 | 2.00 |




### ELECTRIC CITY BARREL

White oak, varnished; galvanized steel bail with ears attached, making an unbreakable bail fastening; galvanized rim and iron head; very narrow rim, which makes it easy to remove butter and clean churn

| Nos. | 100 | 101 | 102 | 103 |
|---|---|---|---|---|
| Gallons | 5 | 9 | 15 | 20 |
| Churn gallons | 2 | 4 | 7 | 9 |
| Weight, lbs. | 29½ | 32 | 43 | 48 |
| Each | $8.00 | 9.00 | 10.00 | 11 00 |
| | 5 34 | 6.00 | 6.70 | 7.40 |

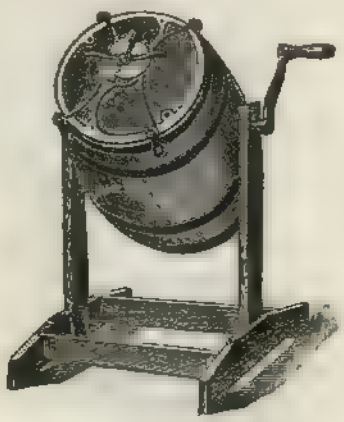
### REPAIRS FOR ELECTRIC CITY CHURNS

Covers

| Nos. | 100C | 101C | 102C |
|---|---|---|---|
| Weight, lbs. | 3 | 3½ | 4½ |
| Each | $1 50 | 1.70 | 2 00 |

Cranks

| Nos. | 100R | 101R | 102R | 103R |
|---|---|---|---|---|
| Weight, lbs. | ⅞ | ⅞ | 1⅛ | 1¼ |
| Each | $0 60 | .60 | .60 | .60 |



### ACME BARREL

White oak; galvanized steel bail with ears attached, making a practically unbreakable bail fastening; galvanized rim and iron head; easy to empty and clean.

| Nos. | 200 | 201 | 202 | 203 |
|---|---|---|---|---|
| Gallons | 5 | 9 | 15 | 20 |
| Churn gallons | 2 | 4 | 7 | 9 |
| Weight, lbs. | 28 | 33 | 42 | 49 |
| Each | $8.00 | 9.00 | 10.00 | 11.00 |
| | 5 60 | 6 30 | 7 00 | 7.70 |

### CORK PACKING

For Electric City or Acme churns.

| | Set |
|---|---|
| No. P—Weight per set 2 ounces | $ 0.50 |

# CHURN DASHERS

Hardwood; handle screws into head.

| | Doz |
|---|---|
| No. 3—Small; weight per dozen 15 lbs. | $ 3 00 |
| No. 2—Large, weight per dozen 17 lbs. | 3 00 |

# Fine Hanging Clocks

Fitted with Fine American Made Movements. Guaranteed in All Respects.

Oak.

| | | | |
|---|---|---|---|
| 10228 | Eight Day, Time . . . . | 10-inch Dial. | $ 7 00 |
| 10229 | " " | Half Hour Strike, " " " | 8 35 |
| 10230 | " " | Time, Calendar, " " " | 7 65 |
| 10231 | " " | Half-Hour Strike, Calendar, Height 22 inches, 10-inch Dial . . . . . | 9 00 |
| 10232 | Eight-Day, Time . . . . . | 12-inch Dial, | 8 00 |
| 10233 | " " | Half-Hour Strike " " " | 9 35 |
| 10234 | " " | Time, Calendar " " " | 8 65 |
| 10235 | " " | Half-Hour Strike, Calendar, Height 24 inches, 12 inch Dial . . . . . | 10 00 |

Shipping Weight on any of above Clocks about 16 lbs.

Be Sure and Mention Style of Wood Desired

Oak.

| | | |
|---|---|---|
| 10236 | Eight-Day, Time . . . . . | $20 65 |
| 10237 | " " Half-Hour Strike, Gong . . . . | 22 65 |

12-inch Time Dial, 10 inch Calendar Dial, Height, 29½ inches.

Shipping Weight about 28 lbs.

Oak or Walnut.

10238 Eight-Day Time . . . . . $10 00

12 inch Dial, Height 25 inches, Width 17¾ inches.

Shipping Weight about 22 lbs.

Oak or Walnut.

10239 Eight-Day, Time, Pendulum Movement $8 00

12-inch Dial, Diameter 16¾ inches.

Shipping Weight about 15 lbs.

## RAILROAD LANTERNS

Double upright guards, single ring guards firmly wedged between two wires of upright guards; bail stands automatically erect

**TIN BOTTOM**

Doz.

**No. 39T** For kerosene oil, No. 1 convex burner, weight per dozen 58 lbs $16 00

**WIRE BOTTOM**

Doz.

**No. 39W** For signal oil, No. 1 ratchet burner, weight per dozen 64 lbs $16 50

**Packed, one-half dozen in case.**

## WALL TORCHES

**IXL, GASOLINE**

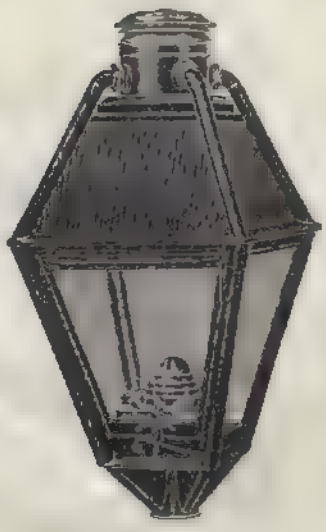
Tank and pipe black japanned, brass globe valve and generating burner; gives large, clear, bright light.

Doz.

**No. 100** Capacity of tank 6 quarts; will burn at full flame for nine hours, weight per dozen 50 lbs $21 00

**Packed, one dozen in case**

## STREET LAMPS



**SQUARE**

Heavy tin, green japanned, has for lights of glass, fitted with automatic extinguisher

Each

**No. D10** Height 43 inches; No. 3 cog burner with 1½ inch wick, fount holds sufficient oil for 24 hours, weight 35 lbs. $15 50

**Packed, one in case**

**PIONEER**

Heavy tin, green japanned; will give a brilliant, steady light in all kinds of weather, fitted with, automatic extinguisher can be filled, lighted and regulated without removing the globe

Each

**No. D9** Height 25½ inches; No. 3 pioneer burner with 1½ inch wick, fount holds sufficient oil for 24 hours; weight 27 lbs. $7.00

**Packed, one in box.**

## SQUARE LAMPS

**IMPERIAL**

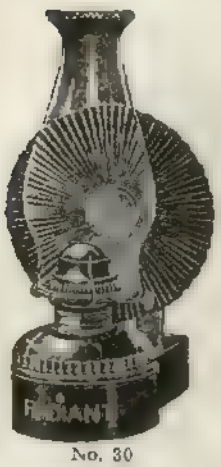
Blue japanned; cold blast; no inside chimney required; easy to clean and fill; burns steadily with a clear, white flame, flame regulated from outside

Each

**No. D7**—Height 21½ inches; width 9⅝ inches, No. 3 cog burner with 1½-inch wick, silvered glass reflector, fount holds sufficient oil for 17 hours; weight 21 lbs. $10 00

**Packed, one in box**

## KITCHEN LAMPS




No. 30

No. 3

### RADIANT

Metal frame; 6¾-inch, corrugated tin reflector; glass fount.

Doz.

No. 30—Height 13 inches, No 2 burner No 2 chimney; weight per dozen 18 lbs .. .. $ 5 50

Steel frame, black enameled 6¾ inch corrugated tin reflector, glass fount with filler vent.

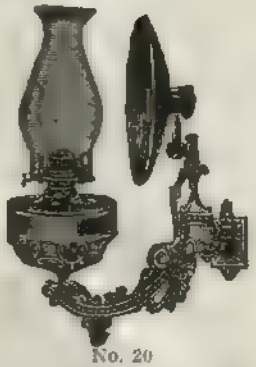
Doz

No. 3—Height 13 inches, No 2 burner, No 2 chimney weight per dozen 19 lbs . .. ... .. .. $ 6.50

Packed, one-half dozen in paper box.

## BRACKET LAMPS

No. 10



No. 20

Gold bronzed bracket; 8-inch silvered glass reflector; glass filler fount.

Doz.

No. 10—No. 2 burner with 1-inch wick; No. 2 chimney; weight per dozen 32 lbs.....$12 00

No. 20—With adjustable reflector; otherwise same as No. 10, weight per dozen 38 lbs..... 14.50

Packed, No. 10 one-half; No. 20 one-quarter dozen in box.

## HAND LAMPS

### BESTOV

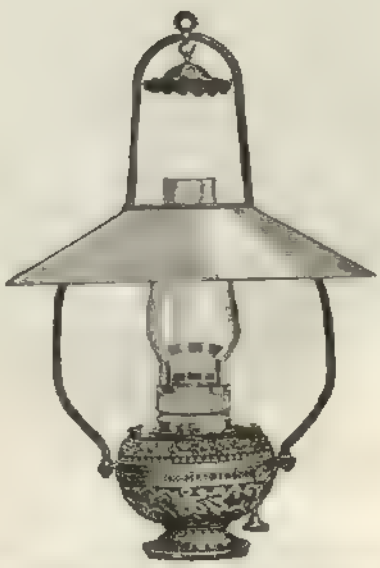
Heavy tin fount, stand and fine burner securely locks in place best flint glass chimney, firmly held in place by screw; with socket and wire hook for putting lamp on wall.

Doz.

No 80—Height 16½ inches, No. 1 size burner taking ⅝ inch wick, weight per dozen 24 lbs . $ 9 50

Packed, one dozen in wood box.

### HANGING



Central draft, 300 candle power, will burn 12 hours; brass embossed fount, complete with harp and 20-inch tin reflector.

Each

No 1167—No 3 Rochester chimney, burner and wick; capacity of fount 1 gallon; weight 27 lbs... ..... ....$ 6.50

Packed, one in case.

Central draft, 300 candle power, will burn 12 hours oil registering dial on fount, capacity of fount one gallon, No 00 Belgian chimney, burner and wick, with harp.

#### WITH TIN REFLECTOR

Each

No. 1267B Brass fount; 20-inch, corrugated reflector, weight 19 lbs . $ 6 80

No. 1267N Nickel plated brass fount, otherwise same as No. 1267B 7.30

#### WITH OPAL DOME SHADE

Each

No. 1267NL—Nickel plated brass fount; without friction extension; weight 26 lbs. .....$ 8.50

No. 1267NE With friction extension; otherwise same as No. 1267NL . .. 10 00

Packed, one in case.

# Novelties

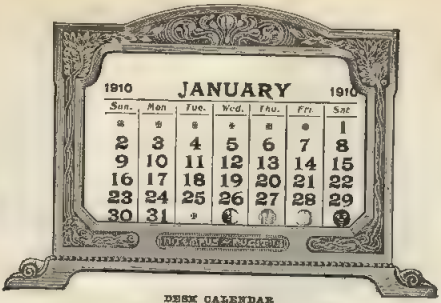
**French Gray, Silver and Rich Ormolu Gold Plated**
**Illustrations are Reduced. Prices Each.**

**CANDLESTICK**
9760 French gray finish . . . $2.50
9761 Ormolu gold plate . . . 3.00
Height, 7 inches.

**CANDLESTICK**
9767 Burnished silver $0.60
Height, 4¼ inches.

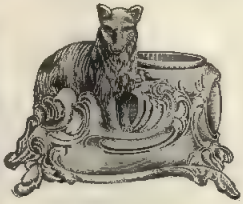
9770 French gray finish . . . $1.35
9771 Ormolu gold plated . . . . $1.65
Height, 6 inches.

**CRUCIFIX**
9762 French gray finish $2.50
9763 Ormolu gold plated . 3.00
Height, 9⅛ inches.




**DESK CALENDAR**
No. 9764 Fine bright brass finish. Size 6½x4¾ inches . . . . . $2.25

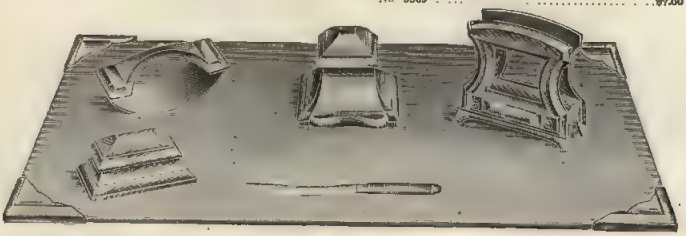
**CIGAR JAR**
French gray finish, bright center, height, 7⅛ inches.
No. 9765 . . . . . $2.50



**MATCH SAFE**
Fine old brass finish, size 4⅛x3⅛ inches.
No. 9766 . . . . . $2.15

**PIN CUSHION**
No. 9768 Burnished silver . . . . . $1.70
Length, 7 inches.

**HOOK RACK**
Fine old brass finish. Size when open 18 inches. When closed 11 inches. Side can be closed down. Height, 5⅝ inches
No. 9569 . . . . . $7.00



**DESK SET**
No. 9772 Old English brass . . . . . $13.35
Size, 19x13 inches.

# HALL CLOCKS

PRICES EACH

**WESTMINSTER HALL CLOCK $283.35**

No. 2583 (Chicago)

Mahogany rose pugh's polished Inlaid with Marqueterie. Height 7 feet 1 inch, width 18½ inches. Westminster Chime movement, striking full Westminster Chime at the quarter hour and hour on five tube staffs. Moving moon dial and calendar. Eight-day spring movement.

**No. 74 HALL CLOCK $113.35**

Oak or mahogany finish, 8-day, chain weight, half-hour strike, gong; brass seconds, 12-inch gilt and silver dial, height 88 inches, width 22¾ inches.

Waterbury

**SHEFFIELD $125.65**

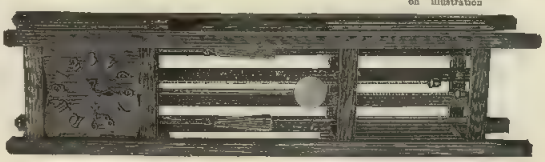
Solid mahogany 8-day, weight, half-hour strike, cathedral gong, 12-inch etched metal dial; height 90½ inches, width 21¾ inches.

New Haven

**WESTMINSTER HALL CLOCK $366.65**

No. 2586 (New York)

Mahogany case, highly polished. Inlaid with rich Marqueterie. Height 6 feet 5 inches width 18½ inches. Westminster Chime movement striking full Westminster Chime at the quarter-hour and hour on five tube staffs. Moving moon dial and calendar, same as shown on illustration



**No. 30 DUTCH $72.50**

Solid oak, Flemish finish, 8-day weight, half-hour strike, cathedral gong, 12-inch wood dial, cast hands and numerals, height 78 inches, width 18½ inches.

New Haven

# HATCHETS

## ELECTRIC CITY

Made of fine solid cast steel; fire bronzed, temper tested, blue web blades, round neck and poll; polished poll and bit, golden oak stained handles.

Shingling Half Lathing Claw Broad

**SHINGLING**

| Nos. | 1 | 2 |
|---|---|---|
| Width cut, inches | 3⅝ | 4 |
| Length handle, inches | 13 | 14 |
| Weight per dozen, lbs | 23 | 25 |
| Dozen | $8.50 | 9.00 |

**HALF**

| Nos. | 1 | 2 |
|---|---|---|
| Width cut, inches | 3⅜ | 3⅝ |
| Length handle inches | 13 | 14 |
| Weight per dozen, lbs | 24 | 26 |
| Dozen | $9.00 | 9 50 |

**LATHING**

| Nos. | 1 | 2 |
|---|---|---|
| Width cut inches | 2½ | 2⅝ |
| Length handle, inches | 13 | 13 |
| Weight per dozen, lbs | 17 | 21 |
| Dozen | $8.50 | 9.00 |

**CLAW**

| Nos. | 1 | 2 |
|---|---|---|
| Width cut, inches | 3⅝ | 4 |
| Length handle, inches | 13 | 14 |
| Weight per dozen, lbs | 24 | 26 |
| Dozen | $9 50 | 10 00 |

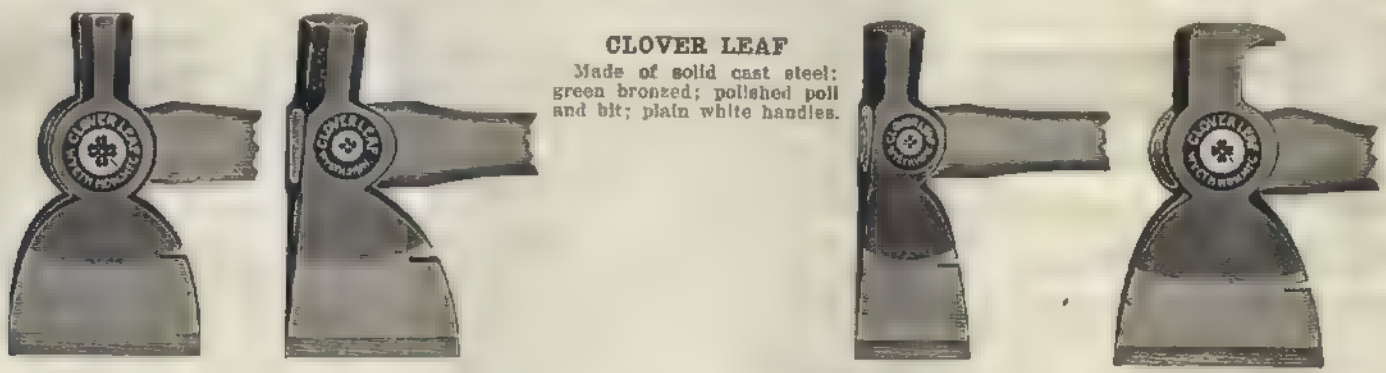
**BROAD**

Beveled on one side only.

| Nos. | 2 | 3 | 4 |
|---|---|---|---|
| Width cut, inches | 4½ | 5 | 5½ |
| Length handle, inches | 13 | 14 | 14½ |
| Weight per dozen, lbs | 30 | 32 | 37 |
| Dozen | $12 50 | 13 50 | 15 00 |

## CLOVER LEAF

Made of solid cast steel; green bronzed; polished poll and bit; plain white handles.



Shingling Half Lathing Claw

**SHINGLING**

| Nos. | 1 | 2 |
|---|---|---|
| Width cut, inches | 3⅝ | 4 |
| Length handle inches | 12¾ | 13¾ |
| Weight per doz. lbs | 23½ | 28½ |
| Dozen | $8 00 | 8.50 |

**HALF**

| Nos. | 1 | 2 |
|---|---|---|
| Width cut, inches | 3½ | 3½ |
| Length handle inches | 12½ | 13½ |
| Weight per doz. lbs. | 23½ | 27½ |
| Dozen | $8.50 | 9.00 |

**LATHING**

| Nos. | 1 | 2 |
|---|---|---|
| Width cut, inches | 2⅝ | 2⅝ |
| Length handle, inches | 12¾ | 12½ |
| Weight per doz. lbs. | 17 | 18½ |
| Dozen | $8.00 | 8.50 |

**CLAW**

| Nos. | 1 | 2 |
|---|---|---|
| Width cut, inches | 3½ | 4 |
| Length handle, inches | 12½ | 13½ |
| Weight per doz. lbs. | 22 | 27 |
| Dozen | $9.00 | 9.50 |

**SHINGLING**

Cast iron; gold bronzed; steel finish bit.

Doz.

No. 2—Width of cut 3½ inches; length of handle 13½ inches; weight per dozen 14 lbs. ..... $ 3.00

**FRUIT BOX**

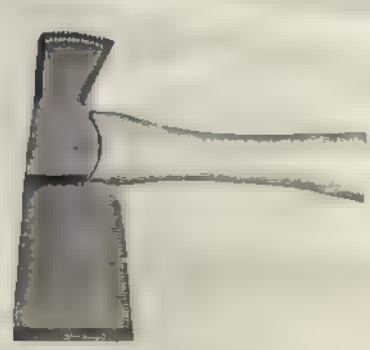
**L. A. Sayre**

Highest grade forged solid high carbon crucible steel; full polished; tempered bit and head; checked face; second growth white hickory handles.

Doz.

No. 0401—Flat head; width of cut 2 inches; regular checked face; 12-inch handle; weight without handle 12 ounces, weight per dozen 17 lbs. ..... $21 00

No. 0400—Oval head; width of cut 2 inches; fine checked face, 12-inch handle; weight without handle 12 ounces; weight per dozen 17 lbs. ..... 21 00



No. 0400

**RIG BUILDERS'**

**Germantown**

Solid tool steel; polished bit and poll; octagon neck; round poll; fire bronze finish; checked face.

Doz.

No. 1318—Width of cut 3½ inches; 17½-inch handle; weight per dozen 28 lbs. ..... $16.00

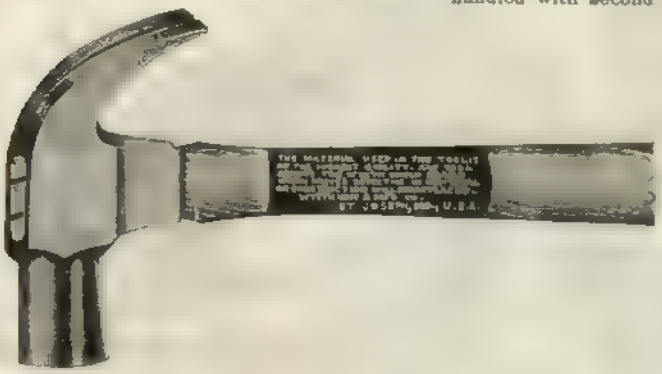
All of above packed, one-half dozen in cardboard box.

No. 1318

# NAIL HAMMERS

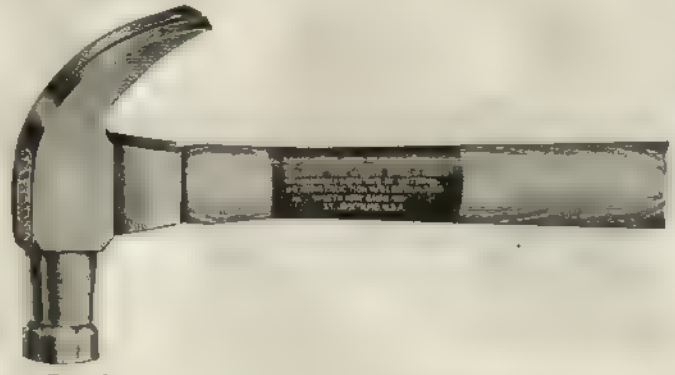
## WYETH SHIELD BRAND

Drop forged from one solid piece highest grade crucible steel; hardened face tempered claws, carefully tested hand ground and polished; handled with second growth polished hickory handle.



Plain poll and face; regular claw; adze eye.

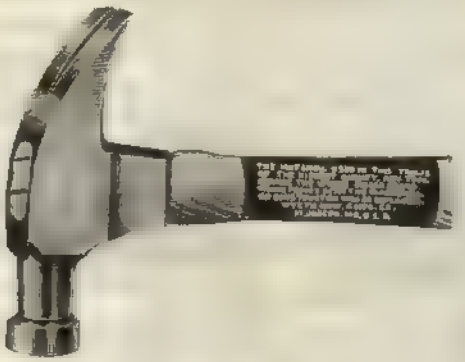
| Nos. | 1 | 1½ | 2 | 3 |
|---|---|---|---|---|
| Diameter face, inches | 1⅛ | 1 | ⅞ | ¾ |
| Length handle, inches | 14 | 13 | 13 | 12 |
| Weight without handle oz. | 20 | 16 | 13 | 7 |
| Weight per dozen, lbs | 22 | 18 | 15 | 10½ |
| Dozen | $11.00 | 10.00 | 9.50 | 9.00 |



Round neck and poll; bell face; regular claw; adze eye.

| Nos. | 11 | 11½ | 12 | 13 |
|---|---|---|---|---|
| Diameter face, inches | 1⅛ | 1 | ⅞ | ¾ |
| Length handle, inches | 14 | 13 | 13 | 12 |
| Weight without handle oz | 20 | 16 | 13 | 7 |
| Weight per dozen, lbs | 22 | 17½ | 14½ | 9½ |
| Dozen | $11.00 | 10 00 | 9.50 | 9.00 |

Packed, one-half dozen in cardboard box.



No. 711½

Round neck and poll; bell face, straight claw, adze eye.

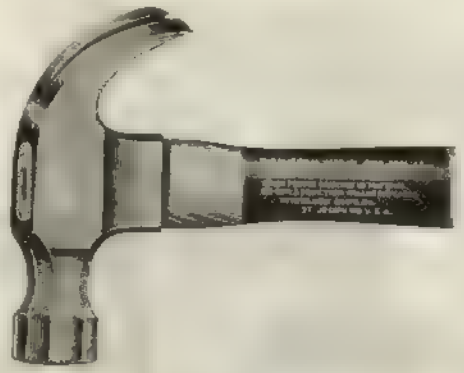
| No. | 711½ |
|---|---|
| Size No. | 1½ |
| Diameter of face, inches | 1 |
| Length handle, inches | 13 |
| Weight without handle, oz | 16 |
| Weight per dozen, lbs | 17 |
| Dozen | $10 00 |

### OUR BEST

Octagon neck and poll; bell face, highly nickel plated; regular claw; adze eye

| No. | 111½ |
|---|---|
| Size No | 1½ |
| Diameter of face, inches | 1⅛ |
| Length handle, inches | 13 |
| Weight without handle, oz. | 16 |
| Weight per dozen lbs. | 18½ |
| Dozen | $16.00 |

Packed, one-half dozen in cardboard box.



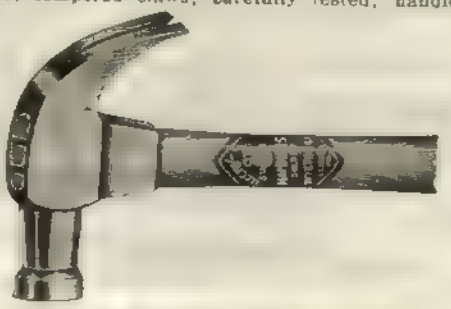
No. 111½

## ELECTRIC CITY

Made from best grade cast steel, hardened face; tempered claws, carefully tested, handled with second growth polished hickory handle.

Plain poll and face; regular claw; adze eye

| No. | 1½ |
|---|---|
| Diameter face, inches | 1 |
| Length handle, inches | 13 |
| Weight without handle, oz. | 16 |
| Weight per dozen, lbs. | 18½ |
| Dozen | $6.50 |



Round neck and poll; bell face, regular claw, adze eye.

| Nos. | 11½ | 12 | 13 |
|---|---|---|---|
| Diameter face, inches | 1 | ⅞ | ¾ |
| Length handle, inches | 13 | 12½ | 11½ |
| Weight without handle, oz. | 16 | 13 | 7 |
| Weight per dozen, lbs | 18 | 16 | 10 |
| Dozen | $6.50 | 6.20 | 5.80 |

Round neck and poll, bell face, checked, regular claw, adze eye.

| No. | 12 |
|---|---|
| Diameter face, inches | ⅞ |
| Length handle, inches | 13¾ |
| Weight without handle, oz | 11 |
| Weight per dozen, lbs. | 15 |
| Dozen | $7.00 |

Packed, one-half dozen in cardboard box.

## STANLEY

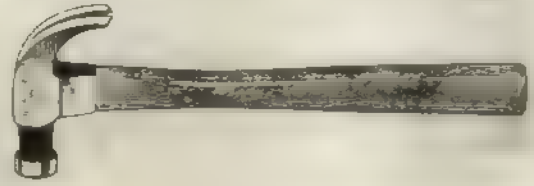
Forged from special grade crucible steel; hardened face; tempered claws highly polished; second growth hickory handles, securely fastened by a patent process

Round neck and poll, bell face; curved claw; adze eye.

Doz

No. 12 Diameter of face 1 inch, length of handle, 13 inches, weight without handle, 16 ounces; weight per dozen, 17½ lbs. ..... $10.00

Packed, one-half dozen in box



# SAD IRONS

## ELECTRIC

### DOVER

Blued steel base; all other metal parts heavily nickel plated; nickel plated handle securely bolted to body, with black enameled wood grip; complete with 6 feet cord protected at iron by spiral steel spring; detachment plug at iron end which will not burn fingers; rigid, heavy contact posts; pull apart attachment plug at socket end; supplied with three-section steel safety stand, waxer and cleaner

| | Each |
|---|---|
| No. 6D—Weight 6 lbs.; 105 to 115 volts; 500 watts per hour; bottom 3½x6¼ inches; height over all 4½ inches | $ 5.00 |

Packed, one in carton

### PELOUZE STANDARD

Smoothly finished cast iron core, nickel plated and polished; heavy, solid, cast iron lever handle securely riveted to toe of core, fitted with black enameled wood grip having threaded bolt extending through its entire length; complete with 6 feet double wire cord, green and black cloth covered, porcelain lamp socket attachment plug and 3-inch, black japanned steel coil spring brace; can be used on either direct or alternating currents, only at or between the voltages given

| | Each |
|---|---|
| No. 3—Weight 6½ lbs.; 105 to 115 volts; 400 watts per hour; bottom 4x6 inches; height over all 6 inches | $ 6 66 |

Packed, one in carton.

## GAS

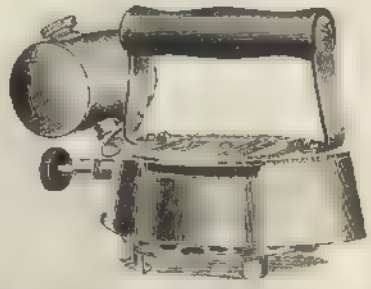
### DOVER

Full nickel plated; nickel plated handle securely bolted to body with black enameled wood grip; sawed burner with slots so arranged as to distribute heat evenly over ironing face; choke race tube prevents flame from blowing out or flashing back; arrangement of radiator pegs and ribs in bottom afford circulation, complete with 6 feet mohair covered rubber hose, protected at burner end by spiral steel spring, with accurate and convenient regulator; supplied with two-section, steel safety stand.

| | Each |
|---|---|
| No. 6—Weight 6 lbs., bottom 3¼x6⅝ inches | $ 5 00 |

Packed, one in carton.

## GASOLINE



### MARVEL

Highest grade cast iron, highly nickel plated and polished; heavy drawn copper tank, highly nickel plated; cast brass generator, burner of seamless brass tubing, so constructed that flame and heat is thrown to bottom; ebonized wood grip, with threaded bolt extending through its entire length; heat can be regulated by turning valve wheel, which raises or lowers flame; to remove gas tank raise lever at rear of iron and lift out.

| | Each |
|---|---|
| No. 30G—Capacity ½ pint, to last about 3½ hours height over all 5¼ inches; complete with stand; weight 6 lbs. | $ 6 00 |

Packed, one in box.

## CHARCOAL

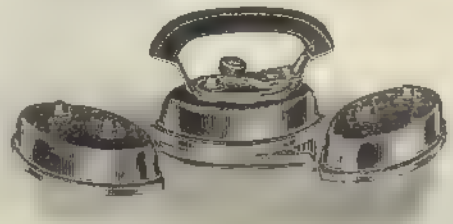
### SMOOTHING

Polished cast iron body with draft slide; bronze flue and top, nickeled handle with varnished hardwood grip; with complete directions for operation.

| | Each |
|---|---|
| No. 112 Size No. 2, height over all 7¾ inches, weight 6 lbs | $ 1.50 |

Packed, one-half dozen in case.

## UNIVERSAL, THERMO-CELL



### LAUNDRY SET

The Universal Thermo-cell has a non-conducting air space surrounding the top and side surfaces of the iron; owing to its construction the heat absorbed by the body of the iron can only radiate through the bottom or ironing surface; the lock handle drops into place and locks automatically and positively without any attention from the operator; once in position, it can not be removed until the user's hand is disengaged from the handle and the locking lever raised; special attention is given to the ironing surface, and after it is carefully ground it is heavily nickel plated and highly polished; heats quickly and evenly.

| | Set |
|---|---|
| No. 123—Consisting of handle, one each 4½, 5 and 6-pound, double pointed irons and one stand; weight per set 16½ lbs | $ 2 80 |

Packed, one set in box.

# SAD IRONS

## ASBESTOS

The unique feature of the asbestos sad iron is a cast iron hood which completely shuts off the escape of heat at top and sides, leaving no outlet except at the ironing surface, by means of the asbestos lining of this hood and an ingeniously contrived air space a difference of over one hundred degrees in temperature is obtained between the heated core and handle All exposed parts are nickel plated and highly polished; wood parts black enameled; tops of cores painted in aluminum; wood handle, cool, strong and fits the hand, with bolt running entirely through; shield keeps heat from hand, sure quick automatic lock; solid core of ample weight, stores heat, smooth, frictionless, beveled edges

### LAUNDRY SET

**Consisting of**

One No. 71 hood, with handle and lock, weight 1½ lbs.
Two No. 72 oval cores; weight 5½ lbs. each.
One No. 72 oval core; weight 4½ lbs.
One 6x6-inch asbestos covered stand.

| | Set |
|---|---|
| No 70 Face of cores 3¼x6½ inches, weight per set 17 lbs | $ 2.40 |

### LAUNDRY SET

**Consisting of**

One No. 71 hood with handle and lock; weight 1½ lbs
Two No. 72 oval cores; weight 5½ lbs. each.
One No. 102 square heel, polishing core; weight 5½ lbs
One 6x6-inch, asbestos covered stand

| | Set |
|---|---|
| No. 100 Face of cores 3¼x6½ inches weight per set 20 lbs | $ 2.70 |

Packed, one set in wood box; six boxes in case

No 50 No. 40 No. 10

### FLOUNCE

| | Each |
|---|---|
| No. 50—Consists of one No. 41 hood, with handle and lock and one No. 52 pointed core, face 2½x6⅝ inches; weight per dozen 48 lbs. | $ 0.66 |

### SLEEVE

| | Each |
|---|---|
| No. 40 Consists of one No 41 hood with handle and lock, one No. 42 oval core, face 2½x4⅝ inches, and one asbestos covered, pressed steel stand; weight per dozen 30 lbs. | $ 0.54 |

### TOURIST

| | Each |
|---|---|
| No. 10—Consists of one No. 11 hood with handle and lock, one No. 12 oval core, face 1⅞x4⅛ inches, and one pressed steel stand; weight per dozen 17½ lbs. | $ 0.32 |

Packed, one in carton.

No. 71

No. 74

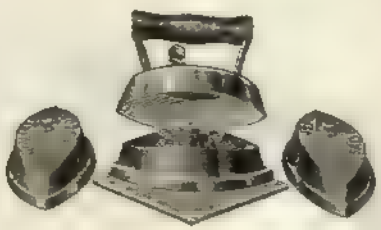
### HOODS

| | Doz |
|---|---|
| No. 71—Hood; handle 4⅝ inches long; fits Nos. 72 and 102 laundry cores and No 82 pressing core, weight per dozen 21 lbs | $10 40 |

### LOCKS

| | Doz |
|---|---|
| No. 74—Lock; consists of polished steel spring and wood bar; to fit No. 71 hood; weight per dozen ⅝ lb. | $ 1.10 |

## DOVER



Nickel plated steel hood which by means of dead air space shuts off escape of heat at top and sides leaving no outlet except at the ironing surface; black enameled wood handle; lever lock with black enameled wood knob; blued steel cores without shield

### LAUNDRY SET

**Consisting of**

One No. 61 hood, with handle and lock; weight 1¼ lbs.
Three No. 62 cores, weight 4½ lbs. each
One 6x6-inch asbestos covered stand

| | Set |
|---|---|
| No. 60—Face of cores 3¼x6½ inches; weight per set 17 lbs. | $ 1.40 |

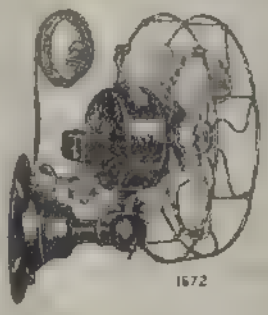
Packed, one set in carton; three sets in shipping case

# ELECTRIC FANS

## EMERSON

**For Alternating and Direct Currents**

**12-Inch Oscillating Desk**



**12-Inch D. C. Oscillating Fan in Bracket Position**
Blades may be Deflected to Throw Breeze Down when Mounted on Wall

Emerson 1914 Model Oscillators have valuable Improvements in the Mechanism, by which the Range of Oscillation may be varied from 150 to 90°, or the stationary position secured by adjusting a Single Thumb Lever below the Gear Case. The Mechanism has been greatly Simplified and all loose parts eliminated.

A new feature is the Adjusting Collar beneath the Motor, by which the direction in which the breeze is thrown may be instantly changed to put the breeze where it is wanted without re-adjusting the Base. This feature is particularly valuable where the Motor is installed as a Bracket Fan with Base fastened to the Wall. The Adjusting Handle in the Collar points in the direction in which the breeze will be thrown.

These Oscillators are Equipped with a Hinged Base Permitting the Blades to be Tilted Up or Deflected as may be Desirable. By Withdrawing the Thumb Screw at the Hinge, this base may be Adjusted to the Angular Position, and the Base Fastened Directly to the Wall. The Hinged Joint is so Designed that the Motor would not be Damaged by Falling Forward, Even Should the Thumb Screw be Fastened Insecurely. When Used as a Bracket Fan the Blades May be Tilted Up or Deflected as well as when Used as a Desk Fan, Permitting the Oscillators to be Placed Well Above the Occupants of a Room, and Tilted Down to Distribute the Breeze over Many Persons, without Annoyance to those Nearest to the Fan.

Owing to the Wide Diffusion of Air Secured with Oscillating Fans, the Blades of Emerson Oscillators are Adjusted to Throw a Stronger Breeze than Thrown by Non-Oscillating Fans of Corresponding Styles. As a Result, Emerson Oscillating Fans Consume a slightly Larger Amount of Current than Corresponding Sizes of Emerson Swivel-Trunnion Fans, but for any Extra Current Required by the Motor the User Receives Full Value in Increased Volume of Air Delivered.

All Emerson Oscillating Fans are Three-Speed Positive-Acting Geared Types, not Dependent on air Reactions for their Swinging Movement. As a Result these Fans Oscillate Steadily in any Position as Desk or Bracket Fans.

Emerson Oscillators have all the Other Valuable Features of Emerson Swivel-Trunnion Fans, Described on Previous Pages. They are Induction Fans without Brushes, Commutator or moving contacts of any kind. Motors of this kind, Equipped with the Oil-Tight, Dust-proof Bearing of the Emerson Fan, are sure to give long Service.

These Fans Should not be Confused with Oscillators Depending on Moving Vanes and Uncertain Air Reactions for their Swinging Movement.

The Ventilating Fan Motors Listed Consist of Emerson Induction Desk Fan Motors with Parker Blades, Mounted in Substantial Cast Iron Frames for Supporting Rings for Bolting to Wall or Window Frame. They are Supplied with 3-Speed Regulating Switches.

These Styles are offered to meet the Requirements of those who Desire to Use the Desk Fan for Exhausting Purposes. Under Proper Conditions, these Fans will give Good Results, but they cannot be Expected to Exhaust Against any Considerable Wind Pressure.

### EMERSON ALTERNATING CURRENT DESK OSCILLATING AND VENTILATING FANS

| Type No. | Diam. Fan | No. Blades | STYLE | Volts | Cycles | Approx. Net | Weight Packed | In Lots of 1 to 5 Each | In Lots of 6 to 19 Each | In Lots of 20 to 99 Each |
|---|---|---|---|---|---|---|---|---|---|---|
| 19044 | 8-in. | 4 | Three Speed Swivel Trunnion Desk Bracket | 110 | 60 | 11 lbs. | 17 lbs. | $21 00 | $19 50 | $18 50 |
| 19040 | 12-in. | 4 | Three Speed Swivel Trunnion Desk Bracket | 110 | 60 | 18 lbs. | 30 lbs. | 30 00 | 27 75 | 26 35 |
| 19048 | 16-in. | 4 | Three Speed Swivel Trunnion Desk Bracket | 110 | 60 | 27 lbs. | 46 lbs. | 35 75 | 33 35 | 31 75 |
| 21046 | 12-in. | 4 | Three Speed Oscillating Desk Bracket | 110 | 60 | 22 lbs. | 42 lbs. | 38 50 | 36 00 | 34 50 |
| 21048 | 16-in. | 4 | Three Speed Oscillating Desk Bracket | 110 | 60 | 32 lbs. | 65 lbs. | 46 00 | 43 25 | 41 00 |
| 21068 | 12-in. | 6 | 3-Speed Oscillating Quiet Residence Type | 110 | 60 | 24 lbs. | 40 lbs. | 39 50 | 40 00 | 38 00 |
| 19066 | 12-in. | 6 | 3-Speed Swivel-Trunnion Quiet Residence Type | 110 | 60 | 25 lbs. | 40 lbs. | 30.75 | 28 75 | 27.50 |

110 Volt Fans Listed Operate on Voltages 104 to 115. Fans for Other Cycles Quoted Specially.
Add $1.12 to Selling Price for 220 Volt. In Lots of 1 to 5.
Add $1.05 to Selling Price for 220 Volt. In Lots of 6 to 19.
Add $1.00 to Selling Price for 220 Volt. In Lots of 20 to 99.

**Note—Plug and Cord included in Price.**

### EMERSON DIRECT CURRENT DESK OSCILLATING AND VENTILATING FANS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 19044 | 8-in. | 4 | Three Speed Swivel Trunnion Desk Bracket | 110 | D.C. | 8 lbs. | 13 lbs. | $18.65 | $17 50 | $16.75 |
| 19040 | 12-in. | 4 | Three Speed Swivel Trunnion Desk Bracket | 110 | D.C. | 18 lbs. | 32 lbs. | 25 00 | 23 50 | 22 50 |
| 19048 | 16-in. | 4 | Three Speed Swivel Trunnion Desk Bracket | 110 | D.C. | 23 lbs. | 45 lbs. | 29 25 | 27 50 | 26 25 |
| 21046 | 12-in. | 4 | Three Speed Oscillating Desk Bracket | 110 | D.C. | 21 lbs. | 42 lbs. | 34 00 | 32 75 | 30 00 |
| 21048 | 16-in. | 4 | Three Speed Oscillating Desk Bracket | 110 | D.C. | 26 lbs. | 65 lbs. | 40 00 | 38 00 | 35 50 |
| 21068 | 12-in. | 6 | 3-Speed Oscillating Quiet Residence Type | 110 | D.C. | 24 lbs. | 42 lbs. | 34.75 | 32.70 | 31 25 |
| 19066 | 12-in. | 6 | 3-Speed Swivel-Trunnion Quiet Residence Type | 110 | D.C. | 19 lbs. | 35 lbs. | 26.00 | 24.50 | 23.25 |

Add $1.12 to Selling Price for 220 Volt. In Lots of 1 to 5.
Add $1.05 to Selling Price for 220 Volt. In Lots of 6 to 19.
Add $1.00 to Selling Price for 220 Volt. In Lots of 20 to 99.

**Note—Plug and Cord included in Price.**

# SAFETY RAZORS

## Ecco

THE SIMPLEST RAZOR MADE

ONLY TWO PARTS—THE FRAME AND THE BLADE

Cut shows upright position of Razor with Blade pushed out from the top of the Frame—ready to be removed.

### SPECIAL OFFER

### Ecco RAZORS

Per Dozen

**No. E45**—With One High-Grade, Polished, Double Beveled Ground Swedish Steel Blade. Weight per Dozen 2½ lbs. . . **$5.00**

One in a Box; Twelve in a Very Attractive Display Case

**NOTE**

We would Suggest to the Merchants to make a TWENTY-FIVE CENT Sale.

### Ecco RAZORS

**The Frame is made of Gold Alloy Metal**—securely fastened to a Forged Steel Handle, thus making **one piece.** Gold Alloy Metal looks like **Solid Gold** and is the **same Color** through and through. **It is not Plated.** It will **not Rust or Corrode.** The **Handle** is first plated with Copper, then **heavily Silver Plated. No Adjusting necessary. No Screws to Set or Lose. Easy to Handle and Clean. The Angle and Hang is already there. The head has a Straight Guard**—(no rake teeth to scratch the face.) The Blade is easily removed from the head—a slight pressure from the thumb nail at the opening in the corner of the top of the frame, throws the Blade forward over the guard. It is then easily removed.

To insert Blade in the Frame—catch it between the Index finger and thumb, slide it into the frame so that the back of the Blade touches the inside of the Frame at the Top and the Edge is Parallel with the Guard.

Each Razor is packed in a Black Cloth covered Box. Green Velvet Pad. Seven, High grade Polished, Swedish Steel Blades, Double Bevel Ground. One [illegible] the Frame, [illegible] packed [illegible] Each box is wrapped and sealed in white oiled paper and paper. Twelve Razors in a very attractive red carton, beautifully labeled. Length of Razor overall 4¼ inches; Blade 1⅝ inches; Size of Case, 2x3x1½ inches. Weight per dozen 2½ lbs.

Per Dozen

**No. E46**—Set described above (with Seven Blades) . . . . . **$8 80**

### EXTRA BLADES

Per Set

**No. E40B**—Extra Ecco Blades—Extra Blades for Ecco Razors—Packed Five in Oil Paper Booklet, carefully sealed. Size 3⅛x1¾ inches; 12 Sets in a Red Carton attractively labeled; Weight per dozen Sets, 4 oz. . . . . **$0 40**

Each Razor and Blade is **Fully Warranted.** A new one in exchange for any not satisfactory.

*"Diamond Edge is a Quality Pledge"*

# Talking Machines

**356** The "SUPERIOR" talking machine has been placed on the market in response to a widespread demand for a machine embodying all the fundamental principles of the highest priced instruments, yet at a cost within the reach of everyone. It is equipped with an Aluminum Tone-Arm a feature that did much to place the talking machine in its present enviable position as a peerless musical instrument

Cabinet of quartered oak, highly polished, mitre joined, with rubber feet, 10 inch Base. Height 6 inches

Is equipped with a graceful floral horn of eight petals, brilliantly red enameled with gold bands. The reproducer is carefully made, perfect in construction and principle. Motor spring very powerful which can be rewound while running, and is equipped with a special patent governor which makes the speed absolutely uniform at all times. The start and-stop attachment, nickeled and polished, is conveniently located in front and acts quickly and powerfully directly on the governor. The turn-table is full 10-inch with a gilded edge. Plays any make or size of disc records, and plays them with a faithfulness of reproduction, sweetness and purity of tone truly remarkable. Each . . . . . $38 00

### Talking Machine Needles

Highest quality steel, oil tempered, 100 in a paper. 1,000 in a package. Per 1,000. . . . . $1 35

### Needle Boxes

Music Master, 4½x2 inch, oak or mahogany, complete with cone, weight, 6 ounces, Each. . . . . $1 60

## RECORDS

Climax, double disc, a selection on each side, weight 8 oz., each . . . . . $1 35

These records can be played on any disc talking machine. They are made of the best material and are smoother, clearer and last longer than most records.

Send for our **complete list of records.**

**The "Eureka" Talking Machine**

**357** A high class machine in every respect The woodwork is very pleasing in design and exceptionally well finished. The motor is the very best quality, carefully tested, has latest made sound-box, and fine floral horn

**Cabinet**—Golden oak, highly polished. 14½-inch base, height 7¾ inches

**Turntable**—10-inch with polished edge covered with green felt

**Motor**—Universal, with two springs which can be wound while running.

**Horn**—Finished in black and gold, 17 inches long, with 10½-inch bell.

**Sound-box**—Improved type attached to swinging taper tone-arm

**Taper-tone Arm**—Finished in black enamel. Swing arm and elbow highly nickeled.

Complete with 100 needles and needle box, weight 29 lbs., each . . . . . $66 66

**The "Supreme" Talking Machine**

**358** This machine is unexcelled by any talking machine made. The motor has three springs, avoiding the necessity of frequent winding. All the parts are very carefully fitted and finished The Cabinet is made in a design obtainable only in high class woodwork, and has a piano finish.

**Cabinet**—Mahogany, highly polished. 15½-inch base, height 7¾ inches

**Turntable**—12 inch with polished edge covered with green felt

**Motor**—Universal, with three springs which can be wound while running.

**Horn**—Wood, Mahogany finished, 19½ inches long, with 22-inch bell

**Sound-box**—Improved type attached to swinging taper tone-arm

**Taper Tone-arm**—Finished in black enamel. Swing arm and elbow highly nickeled.

Complete with 100 needles and needle box, weight 29 lbs., each . . . . . $90 66

**Above Prices are Subject to the Regular Discount.**

# HORNS AND WHISTLES

## E. Z. BLOW FOG HORNS

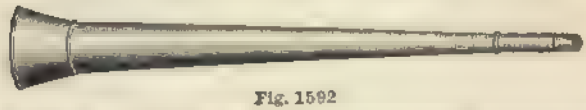


Fig. 1592

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Length | inches | 20 | 1 | [illegible] | 30 | [illegible] | 40 |
| Price, tin | per doz. | 5 [illegible] | 5 [illegible] | [illegible] | 7 50 | [illegible] | 9 38 |
| " Brass | " | 10 00 | 11 [illegible] | 13 50 | 15.00 | 17 00 | |

## TWO-TONE SIGNAL HORNS
### With German Silver Mouth-piece

Fig. 1593

| | | Polished Brass | Nickel plated |
|---|---|---|---|
| Finish | | | |
| Price without bracket | per dozen | 22 00 | 24.00 |
| " With bracket and flexible tube | " | 30.00 | 32.00 |

## SIGNAL WHISTLES

FULL-TONE

Fig. 1594

THREE-TONE

Fig. 1595

### FULL-TONE SIGNAL WHISTLES—With Polished Wood Mouth-piece

| | | |
|---|---|---|
| Length | inches | 6¾ |
| Diameter | inches | ⅞ |
| Price, nickel plated | each | 2 00 |

This whistle will give a loud blast from 4 to 6 seconds as required by law. Can be attached to compressed air tank or steam pipe by removing mouth-piece.

### THREE-TONE SIGNAL WHISTLES

| | | |
|---|---|---|
| Length | inches | 10 |
| Diameter | inches | 2 |
| Price | each | .50 |

This whistle renders a musical chime or tone that is far reaching.

# SHIP BELLS, FIGURES AND LETTERS, ETC.

## LIGHT SHIP BELLS With Detachable Bracket

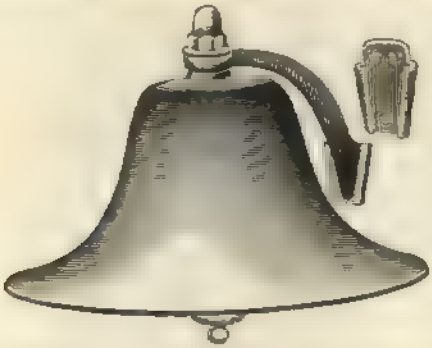


Fig 1596

| Number | | | | | |
|---|---|---|---|---|---|
| Diameter of opening | inches | 6 | 6 | 8 | 8 |
| Price, plain, wrought brass | each | | | | 1 70 |
| " Polished " " | " | | | 1 00 | |

## CAST BRASS LETTERS AND FIGURES

LETTER

Fig. 1597

FIGURE

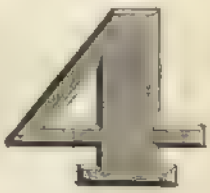


Fig 1598

| Length | inches | 1 | 1½ | 2 | 2½ | 3 | 4 | 6 |
|---|---|---|---|---|---|---|---|---|
| Price, plain | each | .07 | .12 | .17 | .20 | .25 | .40 | .80 |
| " Polished | " | .12 | .18 | .25 | .30 | .40 | .60 | 1.00 |

## CHAIN HOOKS

Fig. 1599

| Length | inches | 24 | 26 | 28 |
|---|---|---|---|---|
| Size of iron | inches | ½ | ⅝ | ⅝ |
| Price, japanned | each | 45 | .70 | .90 |
| " Galvanized | " | 50 | .75 | 1 00 |

# HANDLED HAMMERS

## UPHOLSTERERS'

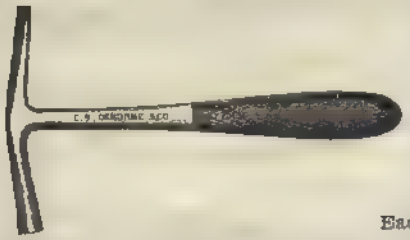
### UPHOLSTERERS' PATTERN

| | Doz |
|---|---|
| No. 6—Wyeth; polished steel head; 10¾-inch hickory handle, weight per dozen 5 lbs. | $ 4.00 |
| No. 34—Malleable iron head tinned, 10¾ inch stained hickory handle, weight per dozen 4½ lbs. | 1.40 |

Packed, one dozen in box.

| | Each |
|---|---|
| No. 56—Osborne's saddlery; solid steel head and shank; 12-inch hickory handle; weight per dozen 7½ lbs. | $ 1.50 |

Packed, one-half dozen in box.



| | Each |
|---|---|
| No. 55—Osborne's saddlery; solid steel head and shank; 10¾-inch oval rosewood inlaid handle; weight per dozen 13½ lbs. | $ 3.00 |

Packed, one-half dozen in box.

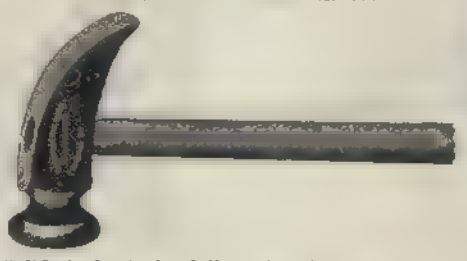
## COBBLERS' OR SHOE

| | Doz |
|---|---|
| No. 5—Cast iron japanned 1¼-inch oval head; polished face; 9-inch hardwood handle; weight per dozen 8 lbs. | $ 1.10 |
| No. 10—Cast iron japanned 1⅜-inch oval head, polished face, 9-inch hardwood handle, weight per dozen 9 lbs. | 1.50 |

Packed, one-half dozen in box.

| | Doz |
|---|---|
| No. 160—Cast iron full polished; 1⅜-inch head; 9-inch hardwood handle; weight per dozen 9 lbs. | $ 2.20 |

Packed, one-half dozen in box.



Solid tool steel; full polished; small neck; round handle, flat head.

| Nos. | 2/0 | 0 | 1 | 2 |
|---|---|---|---|---|
| Diameter head, inches | 1⅛ | 1¼ | 1⅜ | 1½ |
| Length of handle, inches | 9½ | 9¼ | 9 | 9⅝ |
| Weight per dozen, lbs. | 11 | 12 | 13 | 14 |
| Dozen | $6 50 | 6.80 | 7.00 | 7.30 |

Packed, one-half dozen in box.

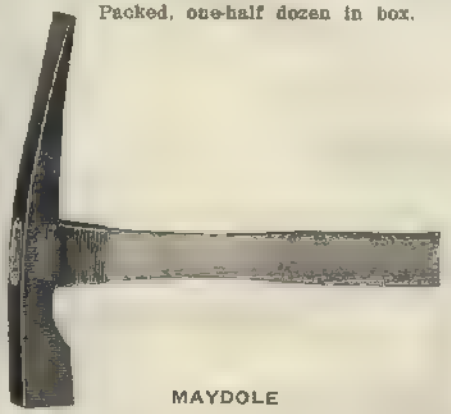
## BRICK

ATHA TOOL CO.

Made from crucible tool steel drop forged from one piece solid steel; carefully tempered and hardened; polished white hickory handle.

| | Doz |
|---|---|
| No. 442A –Size 2; ⅞ inch square head; oval eye, length of handle 10½ inches; weight without handle 1½ lbs , weight per dozen 22 lbs. | $14.50 |

Packed, one-half dozen in box.



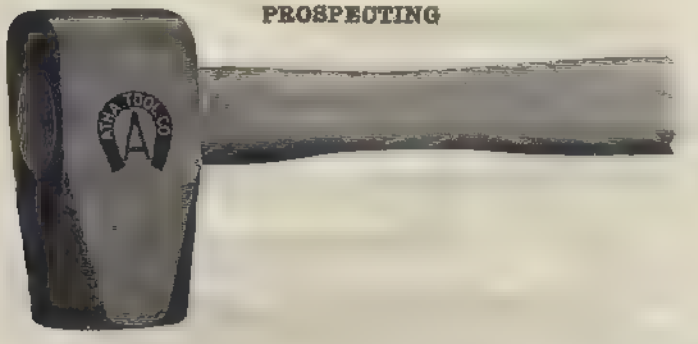
MAYDOLE

Made from solid crucible cast steel; oil finish; perfectly tempered and hardened; second growth hickory handle.

| Nos. | 563 | 562 |
|---|---|---|
| Size face, inches | 1 | 1⅛ |
| Height head, inches | 7½ | 8¼ |
| Length handle, inches | 13 | 13 |
| Weight without handle, lbs. | 1¾ | 1⅞ |
| Weight per dozen, lbs. | 24 | 31 |
| Dozen | $15.00 | 16.00 |

Packed, one-third dozen in box.

## PROSPECTING

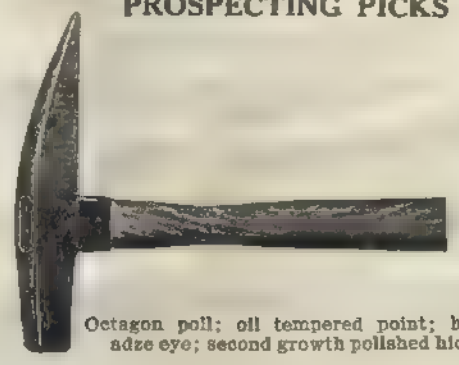



Plain eye; round face; octagon bevel.

| Nos. | 1 | 2 |
|---|---|---|
| Size head, inches | 3x1⅞ | 3⅛x1½ |
| Length handle, inches | 14¾ | 15 |
| Weight without handle, lbs. | 1⅝ | 1¾ |
| Weight per dozen, lbs. | 22 | 27 |
| Dozen | $11.50 | 12.50 |

Packed, one-half dozen in box.

## PROSPECTING PICKS



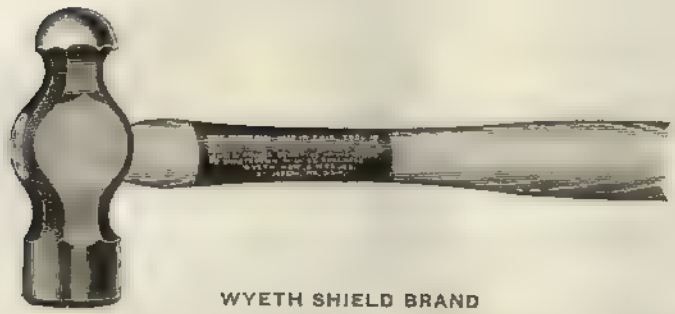
Octagon poll; oil tempered point; hardened head, adze eye; second growth polished hickory handle.

| Nos. | 1 | 2 |
|---|---|---|
| Length head, inches | 7½ | 8 |
| Length handle, inches | 13 | 13 |
| Weight without handle, oz. | 16 | 24 |
| Weight per dozen, lbs. | 18 | 24 |
| Dozen | $13.50 | 14.50 |

Packed, one-half dozen in box.

# HAMMERS

## MACHINISTS' BALL PEIN



### WYETH SHIELD BRAND

Drop forged from one solid piece highest grade crucible steel, thoroughly tested; hand ground and polished; handled with second growth polished hickory handle.

Octagon pattern, hardened head and pein; polished ball and poll; plain eye.

| Nos. | 4/0 | 3/0 | 2/0 | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|
| Size face, inches | ⅞ | 1 | 1⅛ | 1⅛ | 1¼ | 1½ | 1½ | 1½ |
| Length handle, inches | 11¾ | 12⅜ | 13¾ | 14¼ | 15 | 15¾ | 15¾ | 16¾ |
| Weight without handle, oz. | 6 | 8 | 12 | 16 | 20 | 24 | 28 | 32 |
| Weight per dozen, lbs | 7 | 10 | 14 | 16½ | 21½ | 24 | 27 | 30 |
| Dozen | $6 80 | 6.80 | 6 80 | 7.00 | 7.50 | 8 50 | 9 00 | 9.50 |

Packed, one-half dozen in cardboard box

## BLACKSMITHS' HAND

### ATHA TOOL CO.

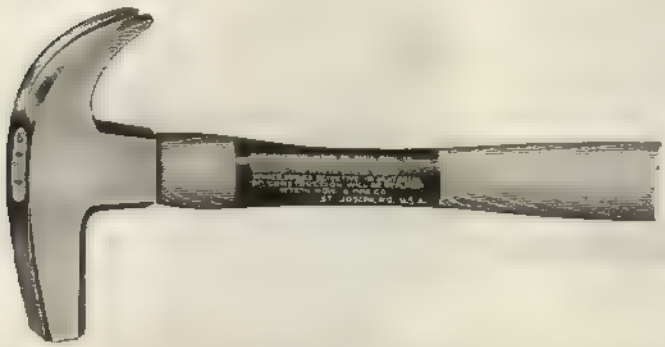
Forged from one piece solid crucible steel; carefully tempered and hardened; polished; handled with white hickory handle.

Cross pein; hardened head and pein; plain eye.

| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Size face, inches | 1⅝ | 1½ | 1⅝ | 2 |
| Length handle, inches | 16 | 16 | 17 | 17 |
| Weight without handle, lbs | 2 | 2⅝ | 3 | 3½ |
| Weight per dozen, lbs | 31 | 38 | 44 | 60 |
| Dozen | $11.50 | 12.50 | 13.00 | 14 00 |

Packed, one-half dozen in cardboard box.

## FARRIERS'



### WYETH SHIELD BRAND

Drop forged from one solid piece highest grade crucible steel; hardened face; tempered claws; thoroughly tested; hand ground and polished, handled with second growth polished hickory handle.

Heller pattern; octagon poll; polished; adze eye.

Doz.

No. 1—⅝-inch face; length of handle 15 inches; weight without handle assorted 14 to 16 ounces; weight per dozen 13 lbs..$14.50

Packed, one-half dozen in cardboard box.

### ELECTRIC CITY

Made from best grade cast steel; hardened face; tempered claws; carefully tested; handled with second growth polished hickory handle.

Round tapering poll; regular curved claw; polished; plain eye.

Doz

No. 2—⅝-inch diameter of face; length of handle 12 inches, weight without handle 7 ounces; weight per dozen 9 lbs $ 7 00

Packed, one-half dozen in cardboard box.

### ATHA TOOL CO.

Forged from one piece solid crucible steel; hardened face; tempered claws; carefully tested, handled with white hickory handle.

Round tapering poll; regular curved claw, polished adze eye.

Doz.

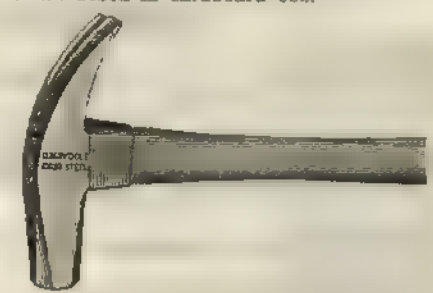
No. 190—⅞ inch diameter round face; length of handle 12 inches; weight without handle 7 oz.; weight per dozen 9 lbs ..$ 9 00

Octagon poll; polished; regular curved claw, adze eye.

Doz.

No. 180—⅞-inch octagon face, length of handle 12¾ inches; weight without handle 7 oz. weight per dozen 9 lbs. $ 9.00

Packed, one-half dozen in cardboard box



### MAYDOLE

Drop forged from one solid piece crucible steel; hardened face; tempered claws; thoroughly tested; highly polished; handled with second growth varnished hickory handle

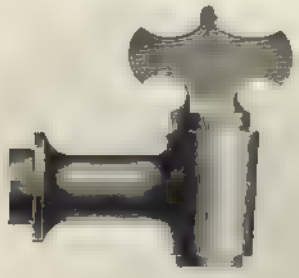
Boston pattern; octagon poll; polished; adze eye.

Doz

No. 152—½-inch square face; length of handle 13¾ inches; weight without handle 10 oz.; weight per dozen 12½ lbs. ..$8.00 $ 9.90

Packed, one-half dozen in cardboard box.

## CREAM CAN FAUCETS

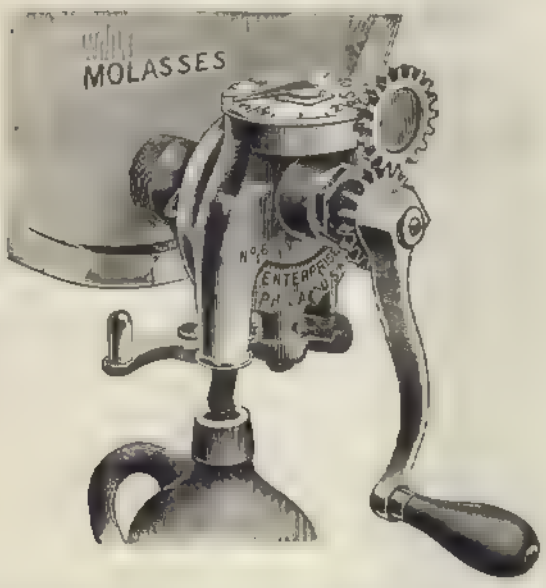


Rough nickel plate; key ground to exact fit

| | Doz. |
|---|---|
| No. 553RN—⅝-inch; weight per dozen 6 lbs. | $ 7.50 |

Packed, one dozen in box

## SELF MEASURING FAUCETS




Improved patent suction and force measuring faucet; for molasses, thick oils, fat, etc., empties directly into receptacle, avoiding use of funnels and measures; quantity regulated by register hand on dial gauged according to United States Standard

| | Doz. |
|---|---|
| No. 61—Enterprise; tinned; weight per dozen 92 lbs. | $51.00 |

Loose.

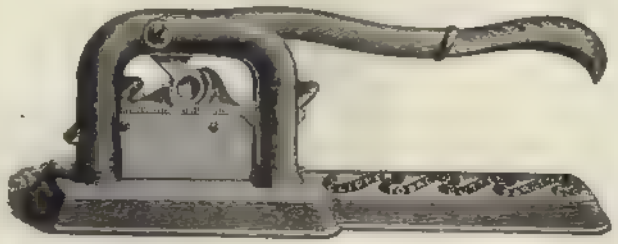
## BUNG BORERS

Made of steel, polished; with polished wood handle, 10 inches long; extreme length 13 inches; boring auger bit at end; may be adjusted by set screw; cutting edge of highly tempered steel; conical reamer; diameter gauge on side of knife

| | Doz. |
|---|---|
| No. 2 Bores from 1⅛ to 2 inches, weight per dozen 22 lbs | $30 00 |

Packed, one-twelfth dozen in package.

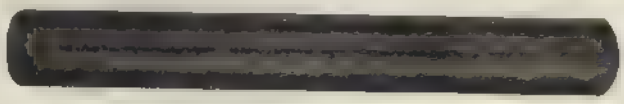
## TOBACCO CUTTERS



| | Doz |
|---|---|
| No 12—Clipper, bronzed, 3½-inch polished blade on compound lever; height 5⅛ inches; size of base 16x4¼ inches; weight per dozen 72 lbs. | $20 50 |

| | Doz |
|---|---|
| No 2—Image; japanned; 3⅝-inch polished blade on ratchet; height 8 inches; size of base 10¾x3 inches; weight per dozen 72 lbs. | 11.50 |

## GAUGE GLASSES



| Diameter, ½ Inch | | | |
|---|---|---|---|
| Length, inches | 10 | 12 | 14 |
| Weight per dozen, lbs. | 1⅝ | 1¾ | 3⅞ |
| Dozen | $1.10 | 1 30 | 1 50 |

| Diameter, ⅝ Inch | | | | | |
|---|---|---|---|---|---|
| Length, inches | 10 | 12 | 14 | 16 | 18 |
| Weight per dozen, lbs. | 2 | 2¾ | 2⅝ | 3 | 3½ |
| Dozen | $1.10 | 1.30 | 1 50 | 1 80 | 2 00 |

| Diameter, ¾ Inch | | | | |
|---|---|---|---|---|
| Length, inches | 10 | 12 | 14 | 16 |
| Weight per dozen, lbs. | 3 | 3⅝ | 4¼ | 4¾ |
| Dozen | $1 30 | 1 60 | 1 90 | 2 20 |

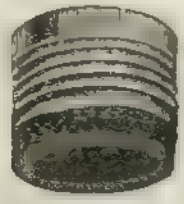
Packed, one-half dozen in package

## LUBRICATING GLASSES

| | Doz |
|---|---|
| No. 342½ Size ¾x2½ inches; weight per dozen 7⅛ lb. | $ 1 00 |

Packed, one dozen in package.

## ANTI-SPLASHERS



EUREKA

Nickel plated steel cap; four layers of gauze; rubber gasket and washer.

| | Box. |
|---|---|
| No. E—Assorted for ⅛ and ¼-inch faucets, weight per box 1½ lbs | $ 3.00 |

Packed, three dozen in box, one dozen on display card

## OIL OR MOLASSES GATES

PERFECTION

Cast iron, japanned; brass cap.

| Diameter, inches | ½ | ¾ | 1 | 1¼ | 1½ | 2 |
|---|---|---|---|---|---|---|
| Length, inches | 6 | 6¼ | 6½ | 6¾ | 8 | 8¼ |
| Weight per dozen, lbs | 14 | 17 | 23 | 32 | 40 | 54 |
| Dozen | $9.50 | 12 00 | 14 00 | 16 50 | 20.00 | 28 00 |
| | 6.00 | 7.50 | 8.50 | 10 00 | 13 00 | 17.00 |

Packed, ½-inch, one-sixth dozen in box; others, one-half dozen in box.

EXTRA BRASS CAPS

For Perfection Oil Gates

| Diameter, inches | 1½ | 2 |
|---|---|---|
| Length, inches | 8 | 8¼ |
| Weight per dozen, lbs | 3 | 3½ |
| Dozen | $3.50 | 5.00 |

STEBBINS PATTERN

Cast iron, japanned, with screw shank

| Nos. | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Inside diameter, inches | ⅜ | ⅜ | 1¼ | 1⅝ | 1½ |
| Length, inches | 4½ | 5 | 6 | 6¼ | 6½ |
| Weight per dozen, lbs | 13 | 14 | 23 | 28½ | 30 |
| Dozen | $7.00 | 8.00 | 9.00 | 10.00 | 12.00 |
| | 3.40 | 3.80 | 4.30 | 4.80 | 6.00 |

Packed, one-half dozen in box.

## OIL CAN FAUCETS

Iron; nickel plated; thumb key ground to exact fit.

| | Doz. |
|---|---|
| No. 01—⅜-inch; weight per dozen 2 lbs | $ 1.50 |

Packed, one dozen in box.

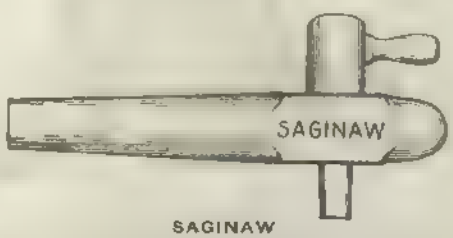
## WOOD FAUCETS

SOMMER PEERLESS

Maplewood body; highly polished; leather lined; block tin key.

| Nos. | 7 | 9 |
|---|---|---|
| Length, inches | 7 | 9 |
| Weight, per dozen, lbs | 4¾ | 5½ |
| Dozen | $2.60 | 3 30 |

Loose.

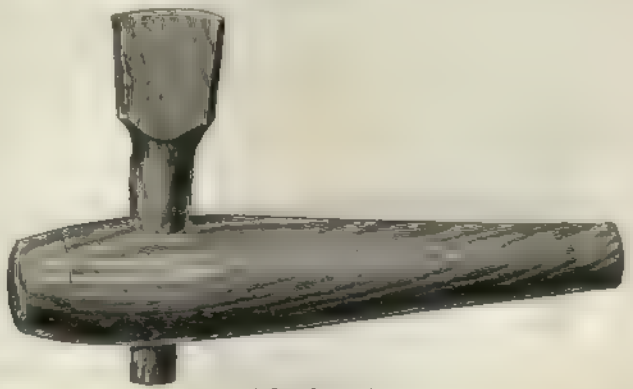



SAGINAW

Hardwood body; varnished; cork lined; wooden lever key.

| Nos. | 2 | 3 | 4 |
|---|---|---|---|
| Length, inches | 8 | 9 | 10 |
| Weight per dozen, lbs | 3½ | 4¼ | 5¼ |
| Dozen | $1 50 | 1.80 | 2 20 |

Loose



RED CEDAR

| | Doz. |
|---|---|
| No. RC—Length 8 inches; plain polished; wooden thumb key; weight per dozen 4 lbs | $ 1.60 |

Loose.

# Fine Art Library Lamps

Art glass library lamp. Diameter of shade is 14 inches, and the lamp stands 21 inches high. Leaded art glass shade in solid amber or solid green bullion in Verde green, or satin brass. 1 light. Complete with 6 feet silk cord and black rubber attachment plug

No. 85142.....$14.20

Queen desk or boudoir lamp. Diameter of shade is 9 inches, and lamp stands 15 inches high. Finished in satin brass, furnished with red, yellow or Nile green satin ribbon in skirt, with fringe to match. Complete with 6 feet silk cord and black rubber attachment plug

No. 20002.....$10.65

PRICES EACH

Hand decorated desk or boudoir lamp. Shade is 8 inches in diameter, and lamp stands 12 inches high. Beautiful hand decorated winter scene in natural colors. One chain pull socket complete with 6 feet silk cord and black rubber attachment plug. Furnished in ivory or Verde green.

No. 5023.....$14.20
No. 5032 10-inch diameter . 21.30
No. 5042 12-inch diameter... 28.40

Art glass library lamp. Diameter of shade is 14 inches, and the lamp stands 21 inches high. Leaded art glass shade in amber and variegated green panels, with ruby iris in skirt. One chain pull socket. Bases furnished in satin brass only. Complete, with 6 feet silk cord and black rubber attachment plug.

No. 012.....$32.45

Art glass library lamp. Diameter of shade is 16 inches, and lamp stands 24 inches high. Artistic leaded art glass shade blended with rich autumn leaf colors. Two chain pull socket. Bases furnished in Verde green or satin brass. Complete with 6 feet silk cord and black rubber attachment plug

No. 90008.....$30.70

Art glass library lamp. Shade is 18 inches in diameter, and lamp stands 24 inches high. Amber glass shade with clusters of natural colored roses with border effects. Two chain pull socket. Complete with 6 feet silk cord and black rubber attachment plug. Furnished in antique brass and Verde green

No. 93182.....$81.50

Art metal library lamp. Diameter of shade, 14 inches; height, 23 inches. Very elaborate, ornamental art metal overlaid design. Rich shades of amber art glass in panels, with variegated art glass skirt in sunset effect. Two chain pull socket. Complete with 6 feet silk cord and black rubber attachment plug. Furnished in the following finishes: Verde green, old ivory antique brass and antique gold

No. 6042.....$35.45

No. 6012

Art metal library lamp. Shade is 18 inches in diameter, and lamp stands 24 inches high. Very elaborate, ornamental art metal overlaid effect. Rich shades of amber art glass in panels, with variegated art glass skirt in sunset effect. Two chain pull socket. Complete with 6 feet silk cord and black rubber attachment plug. Furnished in the following finishes: Verde green, old ivory, antique brass and antique gold.

No 6012.....$42.50

Art metal library lamp. Shade is 18 inches in diameter, and lamp stands 24 inches high. Very elaborate, ornamental art metal overlaid design. Rich shades of amber art glass in panels, with variegated art glass skirt in sunset effect. Two chain pull socket complete with 6 feet silk cord and black rubber attachment plug. Furnished in the following finishes: Verde green, old ivory, antique brass and antique gold.

No. 6022.....$42.50

No. 6022

# Flashlight Electric Alarm, Call and Bank Clock

## Flashlight Electric Alarm, Call and Bank Clock. Ready for Use

ONLY CLOCK OF ITS KIND MADE.

With stamped steel back attached, and well made combination for same.

Electric alarm will ring continuously until you "get up" and stop it. No chance to oversleep. Operated with dry battery. A long push cord is attached to clock and can be used in bed to see the time at night by pressing pear push at end of cord.

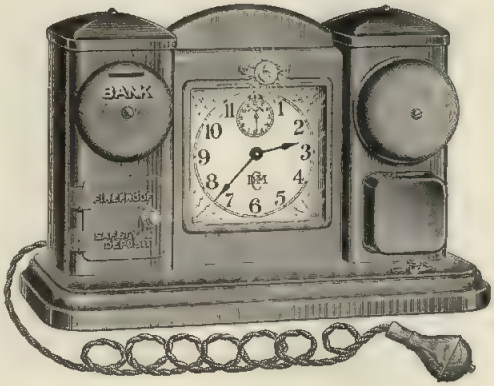
Or can also be used as call bell in sick room or wherever call bell is needed by pressing push at end of cord. No danger of shock.

Lamp is guaranteed to give the best of satisfaction.

Everything complete and ready for use.

Furnished in fine nickel plate or gun metal finish. Height 7 inches, length (extreme base) 12¾ inches, width, 5¾ inches. Weight, 7½ pounds.

8 day time.....$15 85




# "Searchlight" Electric Alarm Clock

SEARCHLIGHT ELECTRIC ALARM AND CALL CLOCK.

THE EARLY RISER'S FRIEND.

Alarm will ring until you get up and stop it.

Operated by dry battery—very simple—no danger of receiving a shock.

Will not get out of order—the only perfect Electric Alarm Clock made.

As an Electric Call Bell can be used in sick room or wherever call bell is needed by merely pressing push at end of cord.

As a Night Light, to see the time in the dark without arising from bed, just press pear push at end of cord—most convenient.

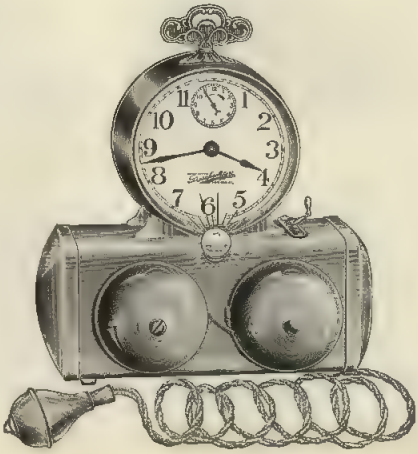
Lamp is guaranteed to give the best of satisfaction.

Alarm very noisy—can be stopped at pleasure.

Height, 9 inches; width, 7½ inches; depth, 5 inches. Weight, 6 pounds.

Furnished in copper, oxidized finish.

1 day time.....$8.35



## FOOT BALLS

### WYETH SHIELD BRAND

No. S100F

No. S350F

No. S500F

| | | Doz |
|---|---|---|
| No. S100F | Wyeth, amateur size, selected India grain leather, tan color; otherwise same as No. S150F; weight per dozen 9 lbs | $18.00 |
| No. S125F | Wyeth; regulation size; selected India grain pebbled leather, tan color, otherwise same as No. S150F; weight per dozen 9¾ lbs | 22.00 |
| No. S150F | Wyeth; regulation size; best India grain pebbled leather, tan color; canvas lined, strongly stitched throughout; double stitched and reinforced around opening, strong cord lacing; complete with fine Para rubber bladder; two-piece style; weight per dozen 9¾ lbs. | 27.60 |
| No. S200F | Wyeth, regulation size, special dressed cowhide pebbled effect, tan color, cloth lined, strongly stitched throughout, stitched and reinforced around opening strong cord lacing complete with good Para rubber bladder, weight per dozen 13½ lbs. | 36 00 |
| No. S300F | Wyeth; regulation size; good quality American pebbled grain leather, tan color, canvas lined; strongly wax stitched throughout, stitched and reinforced around opening, rawhide lacing, complete with fine Para rubber bladder and lacing needle, weight per dozen 13½ lbs. | 42 00 |
| No. S350F | Wyeth; regulation size; selected American grain leather, tan color; canvas lined, waxed linen thread stitched throughout; double stitched and reinforced around opening; rawhide lacing; complete with fine Para rubber bladder and lacing needle, weight per dozen 14¼ lbs. | 60.00 |
| No. S500F | Wyeth; official inter-collegiate; regulation size, highest grade imported real English pebbled grain leather, tan color; canvas lined, stitched with heavy waxed linen thread throughout, patent inside lace, which affords extra protection to the bladder and insures the perfectly smooth outside, so necessary for accurate punting place, or drop kicking double stitched around opening, rawhide lacing; complete with special pure gum bladder, lacing needle and inflator weight per dozen 16½ lbs. | 96 00 |

**Packed, No. S100F, twelve in box; S125F, six in box; others one in box.**

## FOOT BALL HELMETS

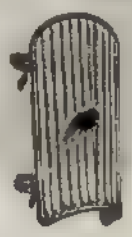
No. S540A

Nos. S540B and S541B

| | | Doz. |
|---|---|---|
| No. S540A | Special black tan leather; well shaped ear pieces; heavy felt padding; well ventilated; elastic chin strap; weight per dozen 8 lbs. | $16.70 |
| No. S540B | Special brown tan leather; shaped ear pieces; heavily felt padded, to afford complete protection; specially ventilated to insure coolness; elastic chin strap; weight per dozen 8 lbs. | 22 00 |
| No. S541B | —Selected best black calfskin; shaped ear pieces; heavily felt padded, to afford complete protection; specially ventilated to insure coolness; elastic chin strap; weight per dozen 9 lbs. | 32 90 |

Packed, one in box.

## SHIN GUARDS



| | | Pair |
|---|---|---|
| No. S331Y | —Boys' size; brown drill; padded; cloth straps and cane ribs, weight ⅝ lb. | $ 0 32 |
| No. S331N | —Full size; tan canvas; fabric bound, padded; strong leather straps and cane ribs; weight ⅞ lb. | 56 |
| No. S333G | —Special brown tan leather front; felt back; strong leather straps and rattan ribs, weight 1 lb | 1.40 |

**Packed, six pairs in box.**

## NOSE GUARDS

| | | Doz |
|---|---|---|
| No. S1NG | Original Morrill style; made of rubber, protects nose and teeth; without cheek pieces, weight per dozen 6 lbs. | $ 5.70 |

## FOOT BALL BLADDERS

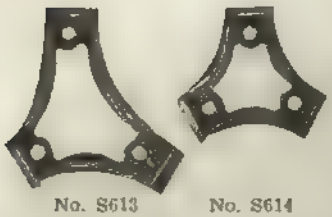
| | | Doz. |
|---|---|---|
| No. S4RP | —Pure gum; used in Nos. S125F and S100F, weight per dozen 2 lbs. | $ 9.00 |
| No. S5RP | —Standard weight, pure gum; extra grade; used in Nos. S150F to S500F, inclusive; weight per dozen 2 lbs | 16 00 |

## FOOT BALL INFLATORS

| | | Doz. |
|---|---|---|
| No. S11 | Nickel plated size of cylinder 5⅜x⅞ inch, extreme length closed 7 inches; weight per dozen 3 lbs. | $ 4.80 |

## SHOE PLATES

### WYETH



No. S613 No. S614

No. S615 No. S616

No. S617 No. S618

Nos. S619 and S620

Doz. pair

No. S613—Wyeth Professional toe; finest tempered steel; hand forged; will not bend or break; weight per dozen pair 2 lbs.; retail price 50 cents per pair ..... $ 7.20

No. S614—Wyeth Professional heel; finest tempered steel; hand forged, will not bend or break; weight per dozen pair 1½ lbs.; retail price 50 cents per pair ..... 7.20

No. S615—Wyeth League toe; first quality steel; will not bend or break; weight per dozen pair 2¼ lbs.; retail price 25 cents per pair ..... 4.00

No. S616—Wyeth League heel; first quality steel; will not bend or break; weight per dozen pair 1¾ lbs.; retail price 25 cents per pair ..... 4.00

Doz. pair

No. S617—Wyeth Club toe; made of good steel; will not bend or break; weight per dozen pair 2 lbs.; retail price 15 cents per pair ..... $ 1.50

No. S618—Wyeth Club heel; made of good steel; will not bend or break; weight per dozen pair 1¼ lbs.; retail price 15 cents per pair ..... 1.50

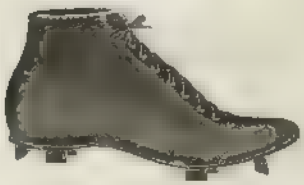
Doz

No. S619—Pitchers' toe; made of aluminum; for left foot; weight per dozen ¾ lb.; retail price 25 cents each.. $ 4.00

No. S620—Pitchers' toe; made of aluminum; for right foot; weight per dozen ¾ lb.; retail price 25 cents each..... 4.00

## BASE-BALL SHOES

### WYETH SHIELD BRAND



Doz. Pair

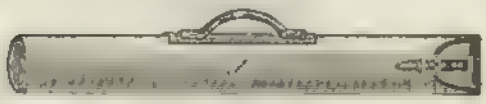
No. S1002—Regulation League pattern; medium cut; made from carefully selected stock; machine sewed; good leather soles, steel plates; this shoe is our leader and is an exceptional value; sizes 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10; average weight per pair 2 lbs.; retail price $3.50 per pair ..... $48 00

No. S1004—Special sprinter model; light weight kangaroo; finished with triple fastened shank; Goodyear sewed soles; steel spikes and steel plate insert rawhide laces; same sizes and weight as No. S1002 ..... 72 00

Packed, one pair in box.

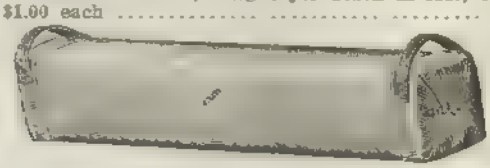
## BAT BAGS

### WYETH SHIELD BRAND



Each

No. S621—Made of heavy olive canvas; capped with leather at one end, holds two bats; weight per dozen 12 lbs.; retail price $1.00 each ..... $ 1 50



Each

No. S622—Made of extra heavy canvas; leather trimmings to match; holds six bats; weight per dozen 24 lbs.; retail price $3 0 each ..... $ 4 00

No. S623—Made of extra heavy canvas; leather trimmings to match; holds 12 bats; weight per dozen 36 lbs.; retail price $4 00 each ..... 6.00

## REACH SCORE BOOKS

HARRY WRIGHT SYSTEM

Doz

No. SR1SB—Pocket size; paper cover; 7 games; weight per dozen 5 ozs., retail price 10 cents each..... $ 1.44

No. SR2SB Pocket size; cloth cover; 22 games; weight per doz en 2¼ lbs.; retail price 25 cents each..... 3.60

No. SR3SB—Pocket size; cloth cover; 50 games; weight per dozen 2¾ lbs; retail price 50 cents each..... 7.20

No. SR4SB Club size; cloth cover; 30 games; weight per dozen 13 lbs.; retail price 75 cents each..... 12.00

## BASE-BALL UNIFORMS

We are prepared to furnish on short notice base-ball uniforms in any style or quality at lowest market prices. Upon request, we will take pleasure in mailing you our special catalogue, showing samples and quoting prices on uniforms complete, or on caps, belts, shirts, pants, etc., separately.

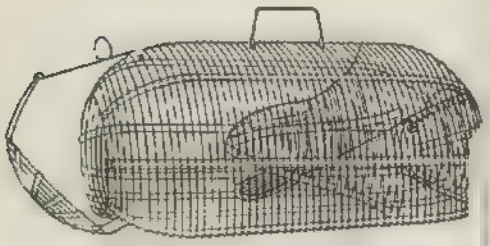
# MOUSE AND RAT TRAPS

CLIPPER; MOUSE

Doz.

No. 5—No. 19 gauge, coppered wire, lacquered; ¼ inch mesh; seven flat steel, locked ribs, coppered; size 4¾x8¼x4¼ inches; weight per dozen 6 lbs. .....$ 4.50

Packed, one-half dozen in bundle

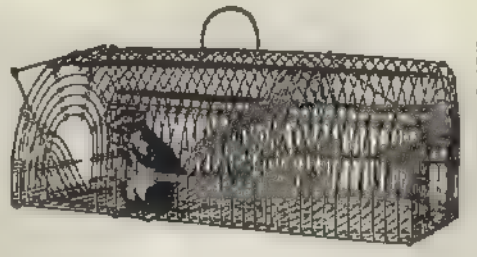


COMBINATION MOUSE AND RAT

Doz

No. C100—For mice or rats; 16-gauge, coppered steel body wires, ¼ inch apart; safety outlet door; tipple opening with flange; size 16x8½x6¾ inches; weight per dozen 30 lbs....$ 9.50

Packed, one-half dozen in crate.



RAT

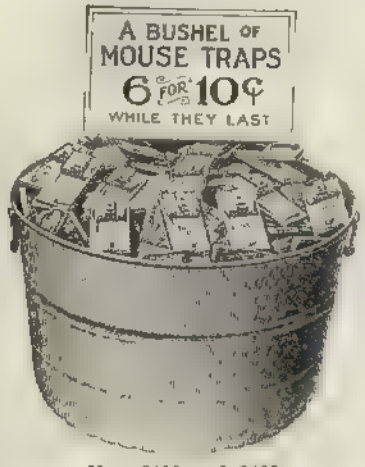
Coppered steel wire; flanged heavy sheet steel ribs, lacquered; mesh wires pass through slot in ribs and are anchored in place by locking wires in flanges of ribs; this construction prevents the wire from being pushed to one side and the mesh thus be enlarged so that the rats can escape.

Doz.

No. 17—Climax; No. 17 gauge wires; nine ribs; length 17 inches; width 9 inches; height 7 inches; weight per dozen 24 lbs. .....$ 7.70

No. 16—Hold fast; No. 16 gauge wires; eleven ribs; length 19 inches; width 10 inches; height 7½ inches; weight per dozen 36 lbs. ..... 9 50

Packed, one-half dozen in crate.




Nos 6410 and 3425

BUSHEL OF SURE CATCH. Bu

No. 6410—Mouse; hardwood base; reinforced wood trigger; coppered wire spring; 360 put up in galvanized iron bushel basket; weight per bushel 32 lbs ... ... ... $ 7.00

No. 3425—Rat; 60 put up in a galvanized iron bushel basket; weight per bushel 35 lbs; otherwise same as No 6410..... .. .. 6 00

VICTOR Bu.

No. V360—Mouse; hardwood base; steel trigger; coppered wire spring; 360 put up in galvanized iron bushel basket; weight per bushel 33 lbs.....$ 7.00

No. V60—Rat; 60 put up in a galvanized iron bushel basket; weight per bushel 40 lbs; otherwise same as No. V360..... . . 6.00

# GOPHER TRAPS

NEWHOUSE

Doz.

No. 84—To be set in runway of gopher; light and quick of action; length 6 inches; 3-inch ring; weight per dozen 2¾ lbs . . . $ 2.20

Packed, one dozen in box

O. K.

Doz

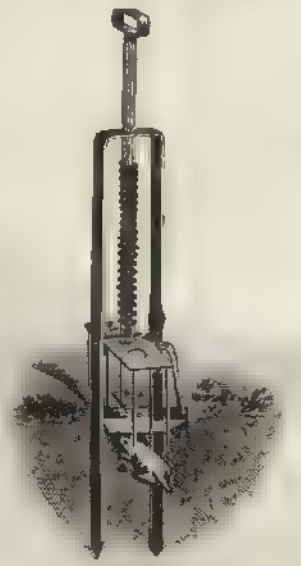
No. 55—Made of hardwood, stained red, size 4x6¾x3 inches; fitted with black finished steel coil spring; ⅝-inch galvanized steel lever and hook; weight per dozen 9 lbs.... ..$ 3.00

CALIFORNIA

Doz.

No. 44—Made of hardwood, stained red, size 3⅝x6¼x3 inches; coppered wire spring and lever; weight per dozen 9 lbs .. . . . $ 3.30

# MOLE TRAPS



REDDICK

Doz.

No. 50—Frame made of ⅝-inch flat, tinned steel; six tinned steel prongs, 5½ inches long; steel coil spring, painted black; length, open 28 inches, closed 24 inches; width 3¾ inches; weight per dozen 30 lbs...$11.00

Packed, one-half dozen in crate.

# MOUSE AND RAT TRAPS

### SQUARE CHOKER; MOUSE

Wood, stained red; coppered steel springs, self-setting.

| Nos. | 01 | 02 | 03 |
|---|---|---|---|
| Number holes | 1 | 2 | 3 |
| Size inches | 2⅜x2¼x1 | 4⅜x2¼x1 | 5⅜x2¼x1 |
| Wt. dozen, lbs. | ¾ | 1½ | 2¼ |
| Dozen | $0.28 | .60 | .90 |

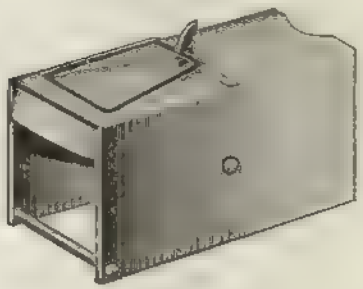
Packed, one dozen in bundle.

### ELI; MOUSE

Doz.

No. 030—Hardwood base 1¾x3¾ inches, metal trigger; steel spring; flat steel bow; weight per dozen 1 lb.....$ 0.40

Packed, one dozen in box.

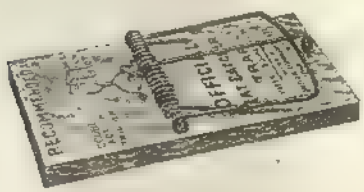


### UP-TO-DATE; MOUSE

Doz.

No. 040—Polished steel body 1¾x2⅜x1 inch; flat steel trigger which will catch mouse at either end of trap; quickly and safely set with one hand; impossible to catch the fingers; weight per dozen ¾ lb.....$ 0.80

Packed, one dozen in box.



### OFFICIAL

Doz.

No. 0170—Mouse; hardwood base 2x3⅞ inches; coppered wire spring and double action trigger; weight per dozen 1¼ lbs.....$ 0.60

Packed, one dozen in carton.

Doz.

No. 170—Rat; base 3⅜x7 inches; weight per dozen 5½ lbs.; otherwise same as No. 0170.....$ 1.70

Packed, one dozen in box.

### ROUND CHOKER; MOUSE

Wood, stained red; coppered steel springs; self-setting.

| Nos. | 04 | 05 |
|---|---|---|
| Number holes | 4 | 5 |
| Diameter, inches | 5⅛ | 5¼ |
| Weight per dozen, lbs. | 3¼ | 4 |
| Dozen | $1.20 | 1.50 |

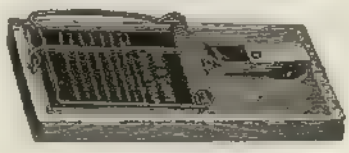
Packed, one dozen in bundle.

### GRAVITY; MOUSE

Doz.

No. 0200—Steel, black finish; easy to bait and set; not necessary to touch mouse to remove it; to be placed on floor with handles up; weight per dozen 1¼ lbs.....$ 1.30

Packed, one dozen in box

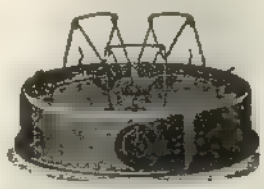


### OUT O' SIGHT; MOUSE

Doz.

No. 050—Rock elm wood base, 1⅞x3⅞ inches; reinforced wood trigger; coppered, spring steel wire, one piece, double tensioned spring; weight per dozen 1½ lbs.....$ 1.30

Packed, one dozen in display carton.



### ROUND CHOKER; MOUSE

Stamped from one piece, bright tin, well finished; coppered steel springs; self-setting.

Doz.

No. 0500—Five holes; diameter 4¾ inches; weight per dozen 2½ lbs....$ 1.50

Packed, one dozen in bundle

### SECURITY

Doz.

No. 060—Mouse; galvanized iron, 1⅛x3⅞ inches; coppered wire spring and bait hook; sets automatically by pressing down with the foot; weight per dozen 1¼ lbs.....$ 1 50

No. 160—Rat; 2⅞x6½ inches; weight per dozen 7½ lbs; otherwise same as No. 060.....3 50

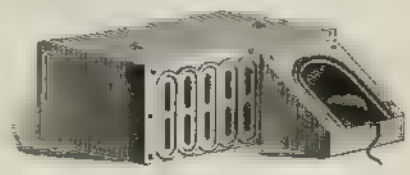
Packed, one dozen in box

### KAT'S-PAW; MOUSE

Doz.

No. 090—Polished steel body 1⅛x3 inches; flat steel trigger; bright wire spring; quickly and safely set with one hand; bait from bottom; weight per dozen 1¾ lbs.....$ 1.60

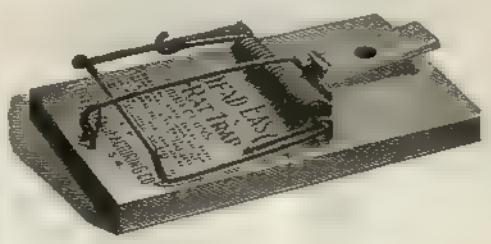
Packed, one dozen in display carton



### MASCOTTE; MOUSE

Doz.

No. 070—Wood parts well finished and stained bright red both inside and outside; tin parts blue lacquered; size 3¾x5½x2½ inches; weight per dozen 5 lbs.....$ 2.00




### DEAD EASY; RAT

Doz.

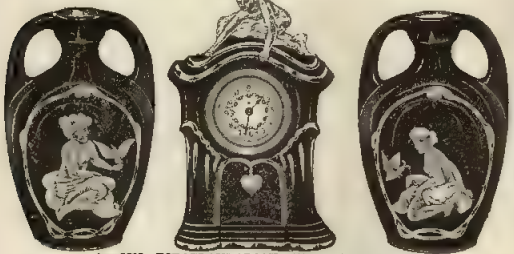
No. 120—Dark stained, hardwood base, 3½x7 inches; reinforced wood trigger with hole under it in base for easy setting; coppered tempered steel spring which laps over end of base; weight per dozen 5¾ lbs.....$ 1.50

Packed, one dozen in box.

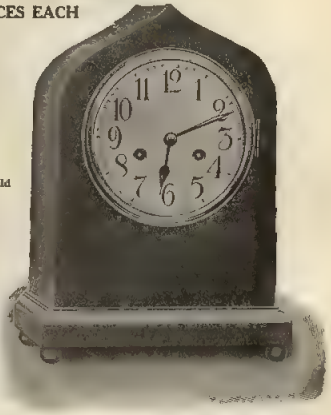
# Imported Porcelain Clock Sets Regulators Cabinet and Novelty Clocks

PRICES EACH

No. 2009 **PORCELAIN CLOCK AND TWO VASES—$7.00**
Clock case and vases in Royal blue, decorated with embossed white figures and gold lines. Height, 8 inches; movement, one-day time.



No. 2008 **PORCELAIN CLOCK AND TWO VASES—$7.00**
Clock case and vases in Royal blue, decorated with embossed white figures and gold lines. Height, 8 inches; movement, one-day time.



No. 7148 **ENGLISH CABINET CLOCK—$35.85**
Genuine mahogany, highly polished case. Height, 12 inches; width, 8 inches. Six inch silver dial, beveled glass with solid cast brass sash. Fourteen-day, half hour strike gong.

No. 7418 **ACROBAT—$25.50**
The acrobat performs various stunts in very life-like manner, one of the best window attractions ever made. Clock movement, twenty-four hour time. Acrobat runs three hours with one winding. Oak case; height, 14¼ inches.

**CRYSTAL REGULATOR**

No. 1728—$29.15

Ivory color enameled wood case with gold trimmings. Three-inch fancy porcelain dial. Center case in polished brass with four beveled glasses. Imitation mercurial pendulum. Eight-day time. Height, 11 inches; width, 7 inches.

(Patent No. D. G. M. 345540)

No. 525 **GLOBE CLOCK "GALILEO"—$17.50**
An Italian astronomer and mathematician who discovered the law of pendulum, "It does move though" (Und sie bewegt sich doch) refers to the story when he was made to kneel on the Gospels and swear never again to say that the earth moves around the sun. It is said when he arose from his knees he was heard to whisper "It does move though." Height, 11 inches; globe, 7½ inches in diameter, nickel case, one-day lever time. The globe moves around once in 24 hours showing the correct time of every city in the world. A magnificent window display. An educational demonstrator and model for schools, practical for office use, useful for every home, adopted by many schools for educational purposes.

# Gold Plated Novelty Clocks

**Made by the New Haven Clock Co.**

**PRICES EACH**

**YESMER—$3.00**
Ormolu gold plated. Height 9¼ inches, width, 6 inches. 2-inch porcelain dial. 1-day time.

**XENDA—$2.10**
Ormolu gold plated. Height, 5½ inches; width, 2⅞ inches. 2-inch porcelain dial. 1-day time.

**RODELL—$3.50**
Ormolu gold plated. Height, 3⅛ inches; width, 7⅛ inches. 2-inch porcelain dial 1 day time.

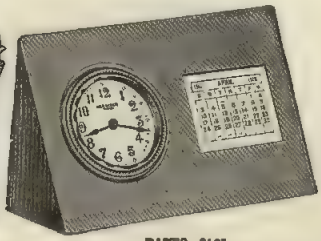
**NANA—$7.25**
Ormolu gold plated. Height, 6½ inches; width, 3⅛ inches. 2-inch porcelain dial. 1-day time.

**ALVORD—$3.90**
Ormolu gold plated. Height, 6 inches, width, 4¼ inches. 2-inch white dial 1 day time.

**DELANO—$7.25**
Ormolu gold plated. Height, 8 inches, width, 4⅝ inches. 2-inch porcelain dial. 1-day time.

**PLETT—$9.85**
Ormolu gold plated. Height, 5⅜ inches; width, 6 inches. 2-inch porcelain dial. 1-day time.

**DREW—$7.25**
Ormolu gold plated. Height, 7 inches; width, 5 inches. 2-inch porcelain dial. 1-day time.



**DATEO—$4.25**
Brush brass. Height, 3¾ inches; width, 5⅞ inches. 2-inch porcelain dial. 1-day time. Fitted with yearly calendar.

# CLOCKS

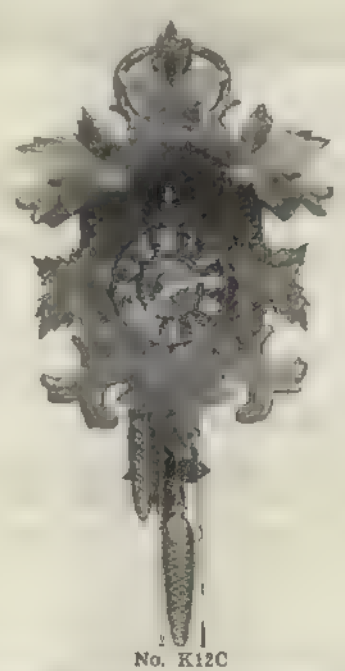
## CUCKOO

Genuine Black Forest. The fronts of these clocks are made in three parts of opposite grain, and are set together to prevent warping and cracking; the carving is all done by hand by the natives of the Black Forest and is especially fine, the figures are accurate and lifelike, the movements are made of the best tempered steel and brass with screw pillars, patent ratchet wheels, and are finely finished and adjusted, very handsome in appearance; every clock run and carefully tested before leaving factory.

No. K10C

Genuine German walnut case, 5-inch dial, half hour strike and cuckoo call, height 21 inches; width 14 inches. Each

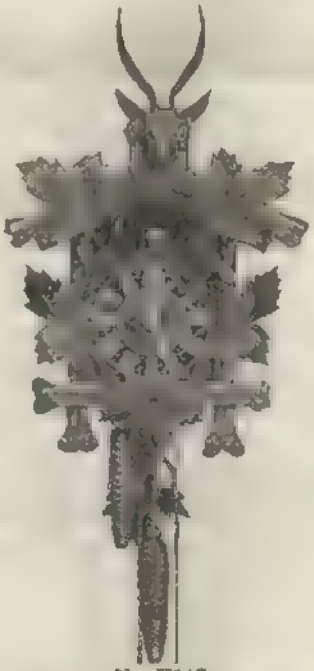
No. K10C—Weight 16 lbs. ..... $ 9.50



No. K12C

Genuine German walnut case, 5 inch dial; half-hour strike and cuckoo call, height 22½ inches; width 15 inches. Each

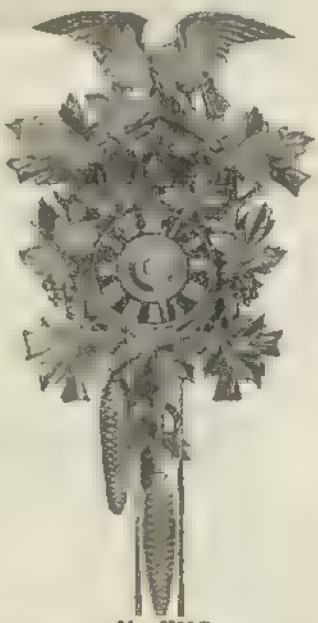
No. K12C—Weight 16 lbs. ..... $10 00



No. K14C

Genuine German walnut case; 6-inch dial; half hour strike and cuckoo call, height 19 inches; width 14 inches

No. K14C—Weight 15 lbs ..... $11 50



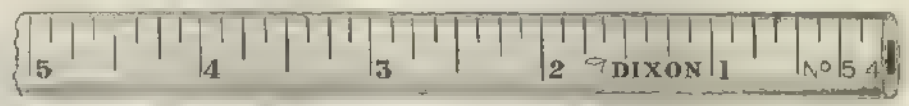
No. K31C

Genuine German walnut case; 5¼-inch dial; half-hour strike and cuckoo call; height 20 inches; width 15 inches. Each

No. K31C—Weight 18 lbs. ..... $16 00

All above packed, one in wood box.

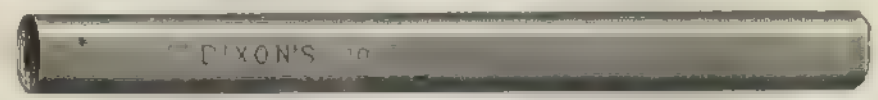
# LEAD PENCILS




Gross

No. K514—Dixon's carpenter's; oval polished; length 7 inches; ruled; weight per gross 3¼ lbs. ..... $ 4 00
No. K515—Dixon's carpenter's; oval polished; length 9 inches; ruled; weight per gross 4 lbs. ..... 4.80

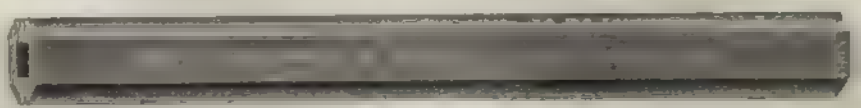
Packed, one dozen in package; one-half gross in carton.




Gross

No. K410—Dixon's carpenter's; polished cedar; length 7 inches; weight per gross 3¾ lbs ..... $ 4 80
No. K411—Dixon's carpenter's, polished cedar; length 9 inches; weight per gross 4½ lbs ..... 6 00

Packed, one dozen in package; one-half gross in carton.



Gross

No. K387P—Wyeth carpenter's; hexagon maroon polished; hard lead; length 7 inches; weight per gross 4 lbs ..... $ 9 00
No. K389P—Wyeth carpenter's; hexagon maroon polished; hard lead; length 9 inches; weight per gross 5 lbs ..... 10 50
No. K997—Wyeth carpenter's; hexagon red finish black bevel; hard lead; length 7 inches; weight per gross 5 lbs ..... 9 00

Packed, one dozen in package; one-half gross in carton.

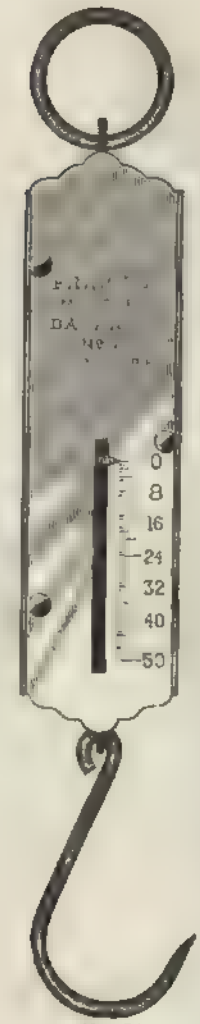
Gross

No. K538—Dixon's carpenter's; hexagon, maroon; hard lead; length 7 inches; weight per gross 4 lbs ..... $ 9 00

Packed, one dozen in package; one-half gross in carton

## SPRING AND ICE BALANCES

No. 60

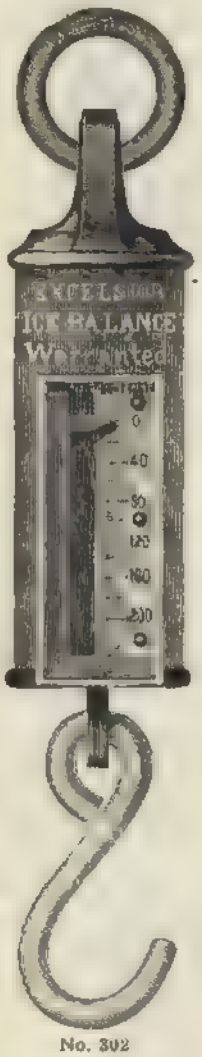

No. 84

No. 10

No. 70

No. 050

No. 1155



No. 302

| | | Doz. |
|---|---|---|
| No. 50 | —Light; straight, case made of sheet steel; japanned, tinned hook and ring; brass face; capacity 25 lbs. by ½lb length 4½ inches; weight per dozen 2¼ lbs | $ 1 50 |
| No. 51 | Light, straight capacity 50 lbs by 1 lbs , length 6 inches, otherwise same as No 50, weight per dozen 4½ lbs | 2 80 |
| No. 500 | Light, straight, capacity 25 lbs by ½ lbs., length 6⅜ inches, otherwise same as No 50 weight per dozen 7 lbs | 3 50 |
| No. 81 | —Heavy straight, capacity 25 lbs by ½ lbs , length 6⅜ inches otherwise same as No 50, weight per dozen 9½ lbs | 4 50 |
| No. 84 | —Heavy, straight, capacity 50 lbs by 1 lbs , length 8½ inches, otherwise same as No 50 weight per dozen 12 lbs | 9 00 |
| No. 10 | —Capacity 10 lbs. by 4 ounces; length 4¼ inches; weight per dozen 8 oz | 6.00 |
| No. 20 | —Capacity 20 lbs. by 4 ounces; length 5½ inches; weight per dozen 1 lb | 8.00 |
| No. 70 | —Heavy, round, japanned, with brass dial; capacity 25 lbs. by ½ lbs.; length 5⅝ inches; weight per dozen 3 lbs | 4.50 |
| No. 050 | —Japanned steel case and spring capacity 50 lbs. by ½ lbs., length 8 inches, weight per dozen 6 lbs | [illegible] |
| No. 0100 | —Capacity 100 lbs. by 1 lbs , length 12 inches otherwise same as No. 050 weight per dozen 18 lbs | 25 40 |
| No. 0150 | —Capacity 150 lbs. by 1 lbs. length 13½ inches, otherwise same as No 050, weight per dozen 23½ lbs | 31.20 |
| No. 210 | —Capacity 210 lbs. by 2 lbs.; length 13½ inches, otherwise same as No 050, weight per dozen 24 lbs | 48 00 |

Packed Nos 50 and 70 one dozen Nos 51, 500, 81 and 050 one-half dozen, No 84 one quarter Nos 0100, 0150 and 210, one-third dozen in box

German.

| | | Doz |
|---|---|---|
| No. 1155 | —German, polished steel, circular spring, brass half dial; steel index; two rings and two hooks; capacity 350 lbs by 5 lbs , length 5 inches; weight ¾ lb | $ 7.00 |

Excelsior

| | | Doz |
|---|---|---|
| No. 302 | Heavy, round steel case tinned ring and hook brass face, capacity 200 lbs by 5 lbs ; length 9 inches, weight per dozen 48 lbs | $51 50 |
| No. 303 | —Capacity 300 lbs. by 5 lbs. length 9 inches; otherwise same as No. 302; weight per dozen 51 lbs | 60 00 |

Packed, No 1155, one-half dozen in package; Nos. 302 and 303, one in box.

## SPRING BALANCES

No. 91

No. 1C

No. 25C

No. 126

| | Doz. |
|---|---|
| No. 91—Straight; polished brass face; 1⅜x6½ inches; japanned steel body; capacity 25 lbs. by ½ lb.; 9-inch round tin dish; tinned ring hook and chain; weight per dozen 10 lbs. | $ 8.00 |
| No. 1C—Champion; 5¾-inch brass dial, with large black figures in double row; 11¼-inch white enameled round steel tray; heavily tinned hook, ring and rods; capacity 25 lbs. by ounces; weight per dozen 48 lbs. | 51.50 |
| No. 25C—Champion; 5¾-inch brass dial, with beaded edge and large black figures in double row; 9x12-inch square tin tray; tinned ring, hook and chain; capacity 25 lbs. by ounces; weight per dozen 36 lbs | 33 [illegible] |
| No. 126—Landers' Improved; circular 3-inch dial; brass front 3¼x10¾ inches; figures countersunk; 10¾x11-inch square tin tray, tinned ring, hook and chain; capacity 30 lbs. by ounces; weight per dozen 66 lbs. | 72 00 |

Packed, Nos. 52R and 91, one-half dozen in box; Nos. 126, 25C and 1C, one in box.

## SCALES

U. S. Postal

National Postal

No. 04

No. 4

### POSTAL

| | Each |
|---|---|
| U. S. Postal—3⅝-inch dial; height 5½ inches; width 3¼ inches; depth 4¼ inches; capacity 4 lbs. by half ounces; warranted accurate. Computes instantly in cents the amount of postage required for letters, newspapers, books and merchandise; beautifully nickel plated; weight 1 lb. | $ 3.30 |
| National Postal—Height 7½ inches; width 3⅞ inches; depth 6¾ inches; capacity 4 lbs. by half ounces; indicates instantly in cents the amount of postage required for letters, newspapers, books and merchandise; handsomely nickel plated throughout, weight 1½ lbs ... | 4.00 |

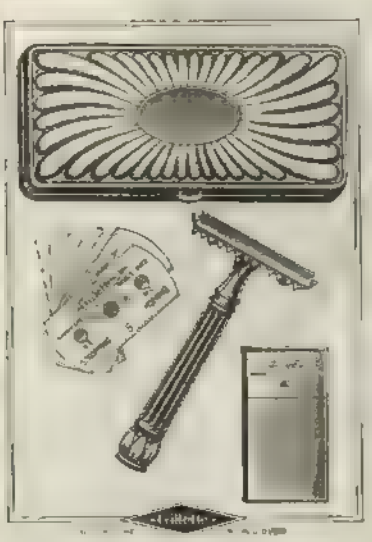
### CONFECTIONERY

| | Each |
|---|---|
| No. 04—Petite; nickel plated; 3-inch dial; finished in brass; large brass scoop; capacity 4 lbs. by half-ounces; height to tripod 8½ inches; size of base 6½x3¾ inches; weight 1¾ lbs. | $ 4.00 |
| No. 4—Invincible; beautifully nickel plated throughout; brass scoop; 11x6 inches; capacity 4 lbs. by half ounces; height 10 inches; base 4¼x6¾ inches; weight 3 lbs. | 5.00 |

Packed, one in box.

# SAFETY RAZORS

## GILLETTE POCKET SIZE



Nos. K502 to K502B

No. K502—Complete with triple silver plated razor, and blade case, with 12 double edge blades; in velvet lined, shell pattern, triple silver plated case; size of case 4x1⅞x⅝ inches; weight per set 8 oz. ..... $5.00 — Set $ 7.50

*No. K502A—Gold plated razor and blade box; in polished gunmetal shell pattern case; otherwise same as No. K502 ..... $5.50 — 8.25

No. K502B—Gold plated razor and blade box, in polished gold plated shell pattern case; otherwise same as No. K502 ..... $6.00 — 9.00

Packed, one in anti-rust flannel bag, in cardboard box.

Nos. K501 to K501B

No. K504—Complete with triple silver plated razor and blade case, with 12 double edge blades in velvet lined Empire pattern, triple silver plated case; size of case 4x1⅞x⅝ inches; weight per set 8 oz. ..... $5.00 — Set $ 7.50

*No. K504A—Gold plated razor and blade box; in polished gunmetal Empire pattern case; otherwise same as No. K504 ..... $5.50 — 8.25

No. K504B—Gold plated razor and blade in polished gold plated Empire pattern case; otherwise same as No. K504. $6.00 — 9.00

Packed, one in anti-rust flannel bag in cardboard box.

Nos. K504 to K504B

No. K501—Complete with triple silver plated razor and blade box, with 12 double edge blades, in velvet lined basket pattern, triple silver plated case; size of case 4x1⅞x⅝ inches, weight per set 8 oz. ..... $5.00 — Set $ 7.50

*No. K501A—Gold plated razor and blade box in polished basket pattern gunmetal case; otherwise same as No. K501 ..... $5.50 — 8 25

*No. K501B—Gold plated razor and blade box in polished basket pattern gold plated case; otherwise same as No. K501 ..... $6.00 — 9 00

Packed, one in anti-rust flannel bag in cardboard box.

Nos. K460 to K468B

No. K460—Standard set; complete with triple silver plated razor and blade case, with 12 double edge blades, in velvet lined Morocco grain leather covered case, size of case 3½x2x1½ inches; weight 7 oz. ..... $5.00 — Set $ 7.50

*No. K466—Genuine seal case; otherwise same as No. K460 ..... $6 00 — 9.00

*No. K468—Genuine English pigskin case; otherwise same as as No. K460 ..... $6.00 — 9.00

*No. K466A—Sterling silver razor and genuine seal case; otherwise same as No. K460 ..... $12.00 — 18.00

*No. K466B—Gold plated razor and blade box in genuine seal case; otherwise same as No. K460 ..... $7.50 — 11.25

*No. K468B—Gold plated razor and blade box in genuine pigskin case; otherwise same as No. K460 ..... $7.50 — 11.25

Packed, one in cardboard box

No. K464

No. K464—Bull dog set; complete with triple silver plated razor; two blade boxes, with 12 double edge blades, in silk and velvet lined case; size of case 3⅞x2½x1⅝ inches; weight 7 oz. ..... $5 90 — Set $ 7.50

Packed, one in cardboard box

No. K00—Standard combination set; complete with triple silver plated razor and two blade boxes; good quality Badger hair lather brush and shaving stick in triple silver plated holders; 12 double edge blades, in handsome silk and velvet lined seal grain leather case; size of case 5x3¾x1¾ inches; weight 15 oz. ..... $6 50 — Set $ 9.75

*No. K00A—Fine grade genuine Morocco case; otherwise same as No. K00 ..... $8.00 — 12.00

*No. K00B—Genuine pigskin case, otherwise same as No. K00 ..... $8.00 — 12.00

*No. K00G—Gold plated razor and blade boxes, in genuine Morocco case; otherwise same as No. K00 ..... $10.00 — 15 00

Packed, one in cardboard box

Nos. K00 to K00G

## BLADES

Manufactured from high grade selected crucible steel; put up each in a separate anti-rust envelope, enclosed in a sealed cardboard box.

No. K60—Package of six blades in cardboard box; weight 1 oz. ..... $0.50 — Package $ 0.75

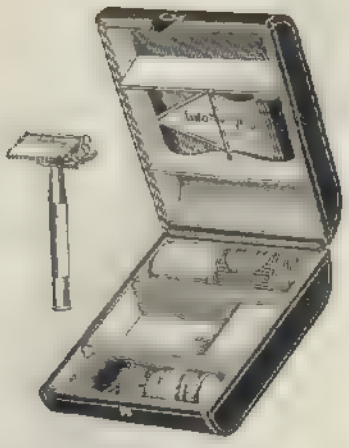
No. K61—Package of 12 blades in nickel case; weight 1¾ oz. ..... $1.00 — 1.50

Packed, ten packages in carton

NOTE—Goods marked thus (*) are for factory shipment only.

# SAFETY RAZORS

## AUTO STROP



**Combination set;** consists of: quadruple silver plated, self stropping razor, fine quality rubberset lather brush, shaving soap, fine quality shell horsehide strop, all contained in ventilated moisture-proof compartments

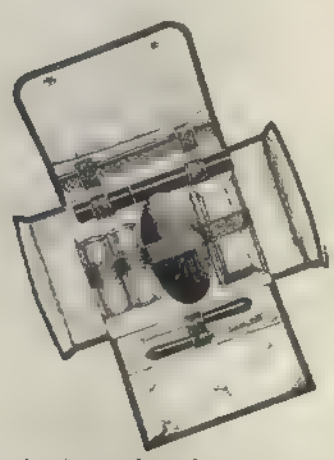
| | Set | |
|---|---|---|
| *No. K21A—Packed, complete with razor, strop, lather brush, soap and twelve blades in ivory celluloid lined, black Morocco grain leather case, size of case 3x5¾ inches; weight 14 oz | $7 50 | $11 25 |

**Sanitary set;** consist of: gold plated self-stropping razor; fine quality shell horsehide strop; size of strop 1⅝x15 inches.

| | Set | |
|---|---|---|
| *No. K131—Packed, complete with razor, strop and twelve blades in handsome ivory celluloid case, size of case 2x4 inches; weight 9 oz. | $7 50 | $11.25 |

**Combination set;** consists of: gold plated self-stropping razor, fine quality rubberset shaving brush and shaving soap in silver plated push bottom tubes; fine quality shell horsehide strop; size of strop 1⅝x15 inches; removable, bevel edge plate glass mirror 3¾x5½ inches.

| | Set | |
|---|---|---|
| *No. K30A—Packed, complete with razor, strop, lather brush, soap, mirror and twelve blades in velvet lined, black Morocco grain leather case; size of case 4x5¾ inches, weight 22 oz. | $9.00 | $13 50 |



**Tourist set;** consists of: auto strop razor set in handsome nickel plated case; fine quality rubberset shaving brush and shaving soap in silver plated push bottom tubes; genuine ebony hand drawn military brush; comb; cuticle knife, nail file, black celluloid tube for tooth brush.

| | Set | |
|---|---|---|
| *No. K600—Packed, complete in leather lined, black seal grain leather box shaped folding case fitted with patent hanger, weight 30 oz. | $10.00 | $15.00 |

**Tourist set;** consists of auto strop razor set in handsome nickel plated case; fine quality rubberset shaving brush and shaving soap in silver plated push bottom tubes; genuine ebony hand drawn hair brush; comb; large black celluloid tube for tooth and nail brush; tooth powder box; soap box; combination flat hat and clothes brush; corn knife; cuticle knife; nail file and scissors.

| | Set | |
|---|---|---|
| *No. K602—Packed, complete in lined, black soft seal grain Morocco leather case, with patent hanger; weight 3¼ lbs. | $18.00 | $27.00 |

**Tourist set,** consists of: auto strop razor set in handsome Parisian ivory case, fine quality rubberset shaving brush and shaving soap in Parisian ivory tubes; solid back military brush; comb; cylinder for tooth and nail brush; cuticle knife; nail file; corn knife, soap box and buttonhook; all trimmings of Parisian ivory.

| | Set | |
|---|---|---|
| *No. K603—Packed, complete in box shaped, lined, genuine English pigskin case with patent hanger; weight 2½ lbs | $19.00 | $28.50 |

No. K17

## AUTO STROPS

| | Each | |
|---|---|---|
| No. K17—Best grade of shell horsehide; size 1⅝x15 inches, made especially for auto strop razors; weight each 1 oz. | $0.50 | $ 0 75 |

Packed six in cardboard box

### BLADES

Highly tempered and hardened razor blade steel, especially adapted for use in auto strop razors.

| | Package. | |
|---|---|---|
| No. K18½—Six blades in package; weight ½ oz. | $0.50 | $ 0.75 |
| No. K18 Twelve blades in package; weight 1 oz. | 1.00 | 1.50 |

NOTE—Goods marked thus (*) are for factory shipment only.

# Gillette Safety Razor

NO STROPPING. NO HONING

We wish to call particular attention to the "New Pocket Edition." These sets are made in the best style of the jeweler's art, uniform in shape and size but diversified in ornamental design and finish. They are without question the most beautiful line of razor sets ever placed before a discriminating public

PRICES EACH

**STANDARD RAZOR**

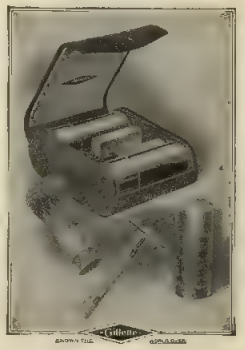
Leather Case, Velvet Lined.

| | | |
|---|---|---|
| No. 460 | Morocco grain case, triple silver plated | $12.20 |
| No. 460A | Real sea case, sterling silver razor | 21.25 |
| No. 466B | Real seal case, gold plated razor | 19.50 |
| No. 466B | Pigskin case, gold plated razor | 19.50 |

**POCKET EDITION**

Basket Pattern, Metal Case, Velvet lined.

| | | |
|---|---|---|
| No. 501 | Triple silver plated case and razor | $13.05 |
| No. 501A | Gun metal case and gold plated razor | 14.40 |
| No. 501B | Gold plated case and gold plated razor | 15.65 |



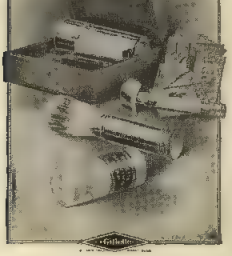
**STANDARD COMBINATION SET**

No. 00 Consists of triple silver plated razor; Badger hair shaving brush in triple silver plated holder; stick Gillette Shaving Soap in triple silver plated holder; two metal blade boxes and 12 double-edged blades all contained in seal grain leather case . . $16 90

No. 00A Same as above, contained in best Morocco case. . [redacted]

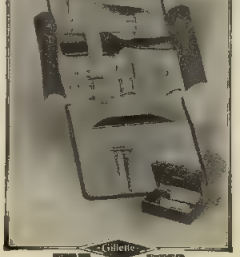
No. 00B Same as above, contained in pigskin case . . . . . 20.85

No. 00G Same as above, contained in best Morocco case, with gold plated razor and fittings throughout . . . . . 38.05



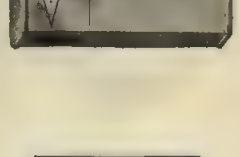
**COMBINATION SET**

No. 461 Consists of triple silver plated razor metal box containing 12 double-edged blades; telescope pattern Badger hair shaving brush, stick Gillette Shaving Soap in triple silver plated holder; velvet-lined Morocco grain leather-covered case . . . . . $16.65



**TRAVELERS' COMBINATION SET**

No 423 Consists of triple silver plated razor and 12 double-edged blades, fine quality Gillette Badger Hair Shaving Brush in silver plated holder; stick Gillette Shaving Soap in silver plated holder; triple silver plated mounted talcum powder and perfume bottles and tooth brush holder; ebony brush; comb; seal grain case with mirror . . . . . $41.65




All razor sets contain 12 double-edged blades in metal box packed to match razor.

Extra Gillette blades.

| | |
|---|---|
| 1-doz. set (metal case) . . . . | $2.65 |
| ½-doz. set (pasteboard carton) . . . . . | 1.35 |

# Solid Gold Emblem Rings

ME

**Raised Emblems—Appropriately Enameled.**

**All Rings on this Page Are Made to Order Only, Which Requires About Three Days' Time, and Cannot be Returned for Credit or Exchange. Be Sure and Give Correct Finger Measure, as These Rings Cannot be Altered.**

5664

Extra Heavy Consistory, Time Raised Eagle, All Emblems Enameled in Colors, **$33 00** each

5665

Extra Heavy, 32nd Degree and Shrine Emblems, Fine Enamel and Raised Eagle **$33 00** each.

5666

Plain Oval, Extra Heavy, Enameled in Colors, Raised Double Eagle, Fine Diamond, **$60 00** each

**Other Designs Furnished on Request.**

5669

Raised Engraved, Double Eagle 32nd Degree. **$15 00** each

5667

Masonic Chapter, Plain Oval, Extra Heavy, Design Enameled in Appropriate Colors, **$16 00** each.

5668

Knights Templar, Raised and Enameled Emblems, **$18 00** each.

5670

Masonic, Raised and Enameled Emblems, **$9 00** each.

5671

Masonic, Raised and Enameled Emblems, **$12 00** each.

5672

Masonic, Raised Emblems, Blue Enameled "G", Fine Diamond setting, **$21 00** each.

5675

Odd Fellows, Raised and Enameled Emblems, **$9 00** each.

5674

Odd Fellows, Raised and Enameled Emblems, **$11 00** each.

5676

Knights of Pythias, Raised and Enameled Emblems, **$9 00** each.

5677

Knights of Pythias, Raised and Enameled Emblems **$15 00** each.

5678

Odd Fellows, Raised and Enameled Emblems, **$15 00** each.

5680

Modern Woodmen, Enameled Emblem **$9 00** each

5679

Red Men, Raised and Enameled Emblems **$15 00** each

5681

Knights of Columbus, Raised and Enameled Emblems, **$10 50** each.

5682

Order of Railroad Conductors, Raised Center Emblem, **$10 50** each.

5683

I. O. Eagles, Raised and Enameled, **$14 00** each

5684

Order of Telegraphers, Enameled Emblem, **$10 00** each.

For Measure Showing Sizes of Rings see Page 215 or send for Our Aluminum Ring Gauge, FREE ON REQUEST.

We are Always Pleased to Answer Inquiries and Quote Prices. Don't Hesitate to Write Us.

"THE HOUSE OF QUALITY"

# GOLD FILLED CANES MOUNTED ON BEST EBONY STICKS

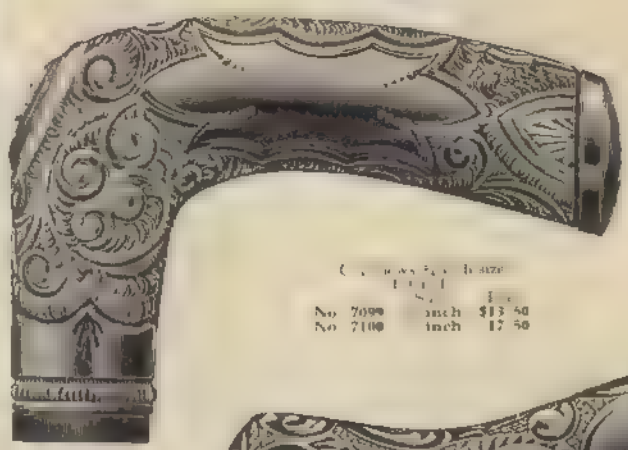
**C Grade being 12K, B grade extra heavy 14K and A grade 14K twice as heavy as B grade**

| | | |
|---|---|---|
| No. 7091 | -Inch | $16 [illegible] |
| No. 7092 | -Inch | 18 00 |

| | | |
|---|---|---|
| No. 7093 | -Inch | $15 50 |
| No. 7094 | -inch | 21 00 |
| No. 7095 | -Inch | $20 [illegible] |
| No. 7096 | -Inch | 26 00 |

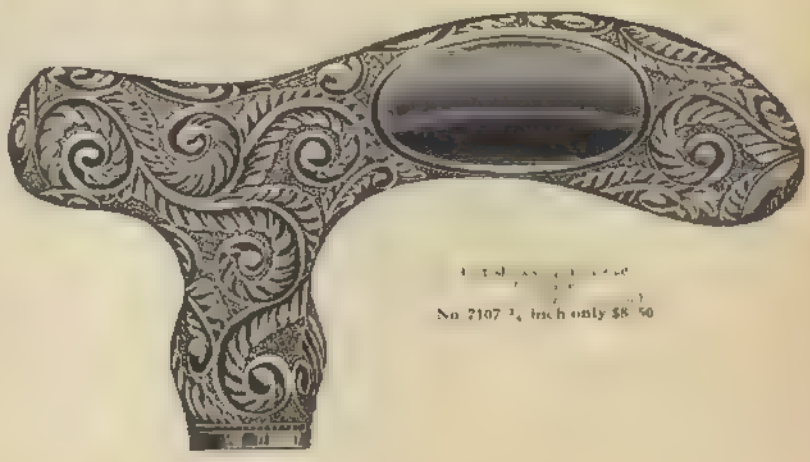
| | | |
|---|---|---|
| No. 7101 | -inch | $10 00 |
| No. 7102 | -inch | 12 00 |
| No. 7103 | -inch | 14 50 |

| | | |
|---|---|---|
| No. 7097 | ¾ inch | $24 00 |
| No. 7098 | -Inch | 30 00 |



| | | |
|---|---|---|
| No. 7099 | -inch | $13 50 |
| No. 7100 | -inch | 17 50 |

| | | |
|---|---|---|
| No. 7104 | -Inch | $ 8 50 |
| No. 7105 | -inch | 9 25 |
| No. 7106 | -Inch | 10 75 |



No. 7107 ¾ Inch only $8 50

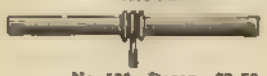
# FINDINGS

BARS

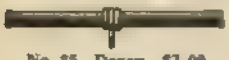
No. 10 Dozen $1 00
Gold Plated

No. 131 Dozen $3 00
Gold Filled

No. 95 Dozen $3 00
Gold Filled



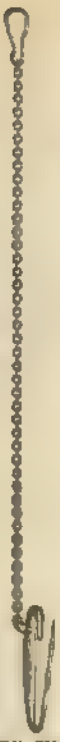
No. 130 Dozen $2.50
Gold Filled



No. 85 Dozen $2.00
Gold Filled

NECKLACE FASTENERS
No. 300 Doz. $2 50

No. 84 Doz. $2.00
Gold Filled

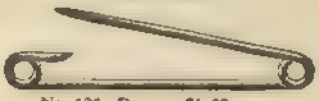


SAFETY CHAINS
No. 46 Dozen $9 00
Gold Filled
No. 46 Each $2 00
Solid Gold

SAFETY PINS

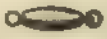
No. 128 Dozen $9 00
Gold Filled

No. 126 Dozen $6 00
Gold Filled

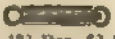


No. 124 Dozen $6 00
Gold Filled

NECKLACE CLASPS



No. 248 Doz. $2 50
Filled



No. 183 Doz. $2 50
Gold Filled

SILK FOB MOUNTING

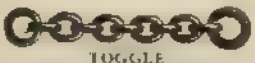
No. 8 Dozen $6 00
Gold Filled

SILK FOB MOUNTING

No. 8 Dozen $6.00
Gold Filled

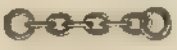
No. 9 Dozen $6 00
Gold Filled

No. 10 Dozen $2 00
With Toggle Bar



TOGGLE
No. 11 Dozen $3 00
Gold Filled

No. 20 Doz. $6.00
Gold Filled



No. 1 Doz. $2.50
Gold Filled

EYE GLASS HOOK
No. 60 Doz. $2 50
Gold Filled

SPRING RINGS

No. 38 Doz. $2.00
Gold Filled

No. 000 Doz $1.50
Gold Filled

No. 0 Doz $1 50
Gold Filled

No. 1 Doz. $2.00
Gold Filled

No. 61 Doz. $1 50
Gold Plated

No. 65 Doz $3 00
Gold Filled

No. 48 Doz $2 50
Gold Filled

No. 95 Doz $3.00
Gold Filled

BOW RINGS

25 x 9 Doz. $9 00
18s Gold Filled
1-10

26 x 11 Doz. $9 00
16s Gold Filled
1-10

No. 255 Doz. $9 00
18s Gold Filled
1-10

No. 250 Doz. $9 00
16s Gold Filled
1-10

No. 245½ Doz. $7 00
12s Gold Filled
1-10

No. 245 Doz. $6 00
6s Gold Filled
1-10

No. 241 Doz. $6.00
0s gold filled
1-10

No. 239½ Doz. $4 00
Chat Gold Filled
1-10

No. 20 Doz $7 00
12s Gold Filled
1-10

15 x 12 Doz $6 00
6s Gold Filled
1-10

No. 271 Gold Filled Dozen $3 00

No. 270 Gold Filled Dozen $3 00

# TINWARE

## LADLES

### CREAM

Stamped IC tin bowl; retinned threaded handle with eyelet.

| No. | 7 |
|---|---|
| Size bowl, inches | 2x⅞ |
| Weight per dozen, lbs. | ½ |
| Dozen | $0.52 |

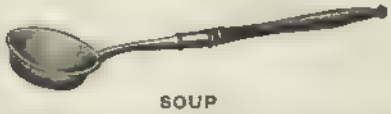
Packed one dozen in package

### SOUP

Stamped IC tin bowl; retinned threaded handle with eyelet.

| No. | 38 |
|---|---|
| Pints | ¼ |
| Size, inches | 3⅝x1 |
| Weight per dozen, lbs. | 2 |
| Dozen | $1.20 |

Packed, one dozen in package



### SOUP

Stamped IC tin bowl retinned; steel shank; black enameled wood handle.

| Nos. | 29 | 30 |
|---|---|---|
| Pints | ¼ | ½ |
| Size, inches | 3⅝x1 | 4x1¼ |
| Weight per dozen, lbs. | 3 | 3½ |
| Dozen | $1 20 | 1.30 |

Packed, one dozen in package

### SOLID

Stamped IC tin, retinned deep bowl; flat steel tinned handle with hook end.

| Nos. | 10 | 11 |
|---|---|---|
| Pints | ½ | ⅝ |
| Size, inches | 4x1½ | 4¼x1¾ |
| Weight per dozen, lbs | 4 | 4½ |
| Dozen | $1 60 | 1.70 |

Packed, one dozen in package.

### PIERCED

Stamped IC tin, retinned deep bowl; flat steel tinned handle with hook end

| Nos. | 10 | 11 |
|---|---|---|
| Pints | ½ | ⅝ |
| Size inches | 4x1½ | 4¼x1¾ |
| Weight per dozen, lbs. | 4 | 4½ |
| Dozen | $1 70 | 1.80 |

Packed, one dozen in package

## GOLD PANS

Smooth steel; polished inside.

| No. | 42 |
|---|---|
| Size, inches | 16¼x2¼ |
| Weight per dozen, lbs. | 22 |
| Dozen | $4.80 |

Packed, one in package.

## MARKING POTS

IC tin; flaring body; round tin handle

| No | 1 |
|---|---|
| Size, inches | 5¾x2¾ |
| Weight per dozen, lbs. | 6 |
| Dozen | $2 30 |

Packed, one in package

## SQUIB CASES

IX tin; with long telescope cover.

| No. | 5 |
|---|---|
| Size, inches | 7x1¼ |
| Weight per dozen, lbs. | 1¾ |
| Dozen | $0 90 |

Packed, one dozen in package.

## CADGERS

IC tin; with can screw; loop handles for strap

| No. | 1 |
|---|---|
| Pints | 1 |
| Size, inches | 4¾x1¼ |
| Weight per dozen, lbs | 3 |
| Dozen | $2 00 |

Packed, one-half dozen in package

# TINWARE

## DIPPERS

Stamped plain IC tin, round tin handle, with ring.

| Nos. | 0 | 2 | 4 | 6 |
|---|---|---|---|---|
| Pints | ½ | 1 | 2 | 4 |
| Size, inches | 4¼x1⅜ | 4½x2 | 5⅜x2⅜ | 5¾x2½ |
| Wt. per doz., lbs | 2 | 2½ | 2¾ | 3½ |
| Dozen | $0 70 | .80 | 1.00 | 1 20 |

Packed, one-half dozen in package.

Stamped; retinned IC tin; round tin handle, with ring.

| Nos. | 2R | 4R | 5R |
|---|---|---|---|
| Pints | 1 | 2 | 4 |
| Size, inches | 4½x2 | 5⅜x2⅜ | 5¾x2½ |
| Weight per dozen, lbs | 2½ | 3 | 4 |
| Dozen | $1.40 | 1.80 | 2.00 |

Packed, one-half dozen in package

Retinned; seamless bowl; flat steel tinned handle with hook.

| Nos. | 10 | 11 |
|---|---|---|
| Pints | 1 | 1¼ |
| Size, inches | 4½x2 | 5x2¼ |
| Weight per dozen, lbs | 4 | 4½ |
| Dozen | $1.90 | 2.20 |

Packed, one-half dozen in package.

Cocoa shaped; seamless flaring bowl; riveted steel shank, black enameled wood handle.

| No. | 151 |
|---|---|
| Pints | ¾ |
| Size, inches | 4⅛x2½ |
| Weight per dozen, lbs. | 2½ |
| Dozen | $1.20 |

Packed, one-half dozen in package.

Pieced IC tin; round tin handle, with ring.

| Nos. | 100 | 200 |
|---|---|---|
| Quarts | 1 | 2 |
| Size, inches | 5¼x2⅞ | 6⅛x3¾ |
| Weight per dozen, lbs. | 3½ | 5 |
| Dozen | $1.50 | 1.60 |

Packed, one-half dozen in package.

Galvanized; stamped bowl; round galvanized handle, with eyelet.

| No. | 131 |
|---|---|
| Quarts | 1 |
| Size, inches | 5⅝x2⅝ |
| Weight per dozen, lbs. | 4 |
| Dozen | $2.00 |

Packed, one half dozen in package.

Family, stamped; DX tin, retinned; round tin handle, with eyelet.

| No. | 22 |
|---|---|
| Quarts | 2 |
| Size, inches | 5⅜x3 |
| Weight per dozen, lbs | 6 |
| Dozen | $2 60 |

Packed, one-half dozen in package

Stamped; IC tin, retinned; reinforced round tin handle, with ring.

| No. | 20 |
|---|---|
| Quarts | 4 |
| Size, inches | 8⅜x3½ |
| Weight per dozen, lbs. | 9 |
| Dozen | $4 00 |

Packed, one-half dozen in package.

Stamped sheet aluminum; rimmed edge; reinforced round handle, with ring.

| No. | 1A |
|---|---|
| Pints | 1 |
| Size, inches | 5x2⅛ |
| Weight per dozen, lbs. | 3 |
| Dozen | $4.00 |

Packed, one-half dozen in box.

Nickel plated on copper; seamless bowl; tinned inside; black enameled wood handle; with screw eye ring.

| Nos. | 30 | 31 |
|---|---|---|
| Pints | 1 | 2 |
| Size, inches | 3¾x2¼ | 4¾x2¾ |
| Weight per dozen, lbs. | 3½ | 4½ |
| Dozen | $5.50 | 7.50 |

Packed, one-half dozen in package.

# FINE HALL CLOCKS IN MAHOGANY AND OAK FINISH

PRICES EACH

**Hall Clock No. 33 $200 00**

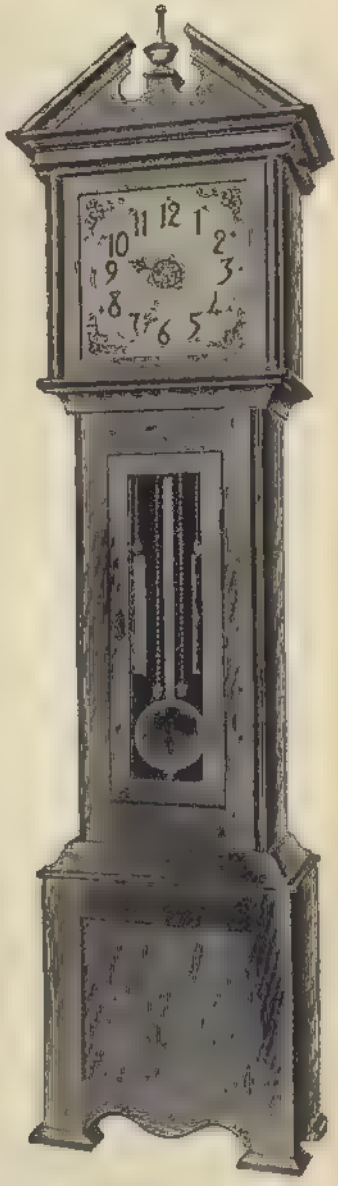
Seth Thomas

Striking and moon. Mahogany case, [illegible] inches wide, 15 inches deep. Eight-day weight movement. Four dials, [illegible] [illegible] changes. Extra heavy [illegible]

**Hall Clock No. 68 $150 00**

Waterbury

Mahogany. Beveled plate glass panel. Eight-day weight movement. Half hour strike on gong. Pendulum glass. 3 brass weights. Has 3 speeds operated at [illegible] power. Solid [illegible] movement. [illegible] silvered dial. Height 92¼ inches, width [illegible] inches.



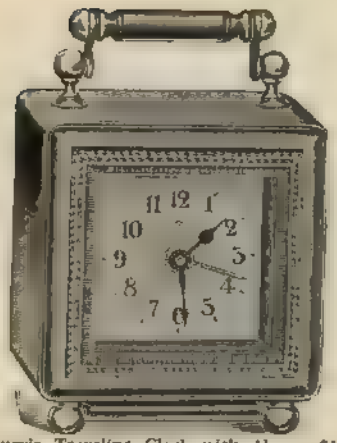
**Hall Clock No. 74 $68 00**

Waterbury

Solid mahogany throughout. Eight-day, hour and half hour strike on gong. Brass weights and pendulum. Silvered dial. Height 88 inches. Width [illegible] inches.

# HIGH GRADE ALARM CLOCKS AND REGULATOR

PRICES EACH

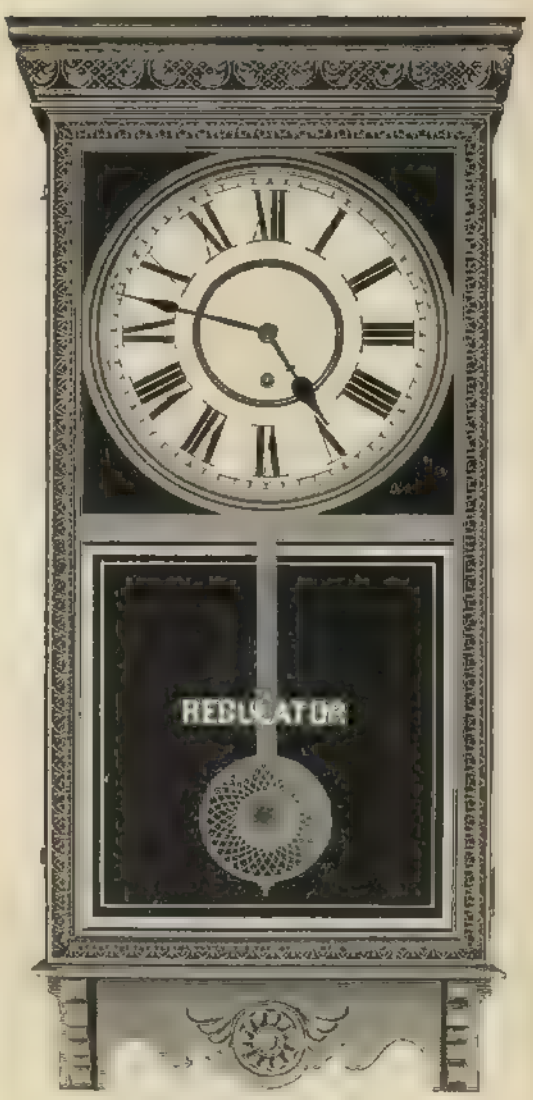


**Suevia Traveling Clock with Alarm $4 60**

Imported

Height, 2½ inches. Silver plated dial with Arabic figures. The smallest and neatest traveling clock made with alarm. Lever movement, one-day time and alarm.

**No. 8254 Genuine Black Seal Case for Suevia $2 20**




**"E" Regulator $6 50**

Seasons

Oak. Eight-day, time. 38½ inches high. 12-inch dial.

**Darling Alarm Clock**

Imported

**No. 182 Darling, Nickel Case $4 00**
**No. 183 Darling, Copper Case 4 00**

Nickel or copper case. Height, 2 inches. Original size same as illustration. Porcelain dial with Arabic figures. Watch movement. One key winds clock and alarm. Smallest traveling alarm clock made. Lever movement, one-day time, and alarm.

**No. 4059 Luminous Alarm Clock $2 90**

Imported

Nickel case, height 7 inches. Enameled dial 4 inches. Luminous figures and hands. One-day time and alarm.

**No. 4233 Bahia Alarm Clock $1.80**

Imported

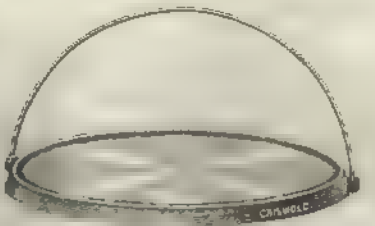
Brush brass case; height, 8 inches. 4-inch dial. Hammer strikes on gong. Very loud alarm. One-day time and alarm.

# CAST STOVE HOLLOW WARE

**Erie, Extra Finished, Highly Polished Inside, Plain Smooth Finish Outside**

HANDLED CAKE GRIDDLES

| Nos. | 8 | 9 |
|---|---|---|
| Diameter top, inches | 9⅛ | 10¼ |
| Weight each, lbs. | 3⅛ | 4¼ |
| Each | $0 40 | .48 |
| | 44 | 52 |



BAILED CAKE GRIDDLES

With ⅜-inch coppered wire bail

| Nos. | 12 | 14 |
|---|---|---|
| Diameter top, inches | 11¾ | 13¾ |
| Weight each, lbs. | 4¾ | 7 |
| Each | $0 70 | .90 |
| | .76 | .98 |

LONG CAKE GRIDDLES

| No. | 8 |
|---|---|
| Length, inches | 19 |
| Width, inches | 8½ |
| Weight each, lbs | 8 |
| Each | $0 72 |
| | 78 |

SPIDERS

| Nos. | 7 | 8 | 9 | 10 |
|---|---|---|---|---|
| Diameter top, inches | 9⅝ | 10⅝ | 11⅛ | 11⅝ |
| Diameter bottom, inches | 8¼ | 8⅞ | 9¾ | 10¼ |
| Weight each, lbs. | 3½ | 4 | 5¼ | 5½ |
| Each | $0.46 | .50 | .58 | .74 |
| | 50 | .54 | .62 | .80 |

With ⅜-inch coppered wire bail and side ring.

## FLAT BOTTOM KETTLES

| No. | 8 |
|---|---|
| Quarts | 7 |
| Top, inches | 9⅞ |
| Bottom, in. | 8⅛ |
| Depth, in. | 6⅝ |
| Weight each, lbs. | 7⅛ |
| Each | $1.04 |
| | 1 12 |

## ROUND BOTTOM KETTLES

| No. | 7 | 8 | 9 |
|---|---|---|---|
| Quarts | 6 | 8 | 10 |
| Top, in | 9½ | 10⅜ | 11⅝ |
| Bottom, in. | 7¾ | 8⅜ | 9⅜ |
| Depth, in. | 7⅛ | 7⅝ | 8¼ |
| Weight each, lbs | 6 | 8½ | 9 |
| Each | $0 90 | 1.00 | 1.30 |
| | 98 | 1 08 | 1 40 |

## FLAT BOTTOM POTS

| No. | 8 |
|---|---|
| Quarts | 8 |
| Top, in. | 10¼ |
| Bottom, in | 8 |
| Depth, in | 7 |
| Weight each, lbs. | 8 |
| Each | $1 28 |
| | 1 38 |

## ROUND BOTTOM POTS

| Nos. | 7 | 8 | 9 |
|---|---|---|---|
| Quarts | 7 | 9 | 12 |
| Top, in | 9⅜ | 10⅜ | 11½ |
| Bottom, in | 7⅞ | 8⅜ | 9⅜ |
| Depth, in | 8⅛ | 8⅝ | 9⅛ |
| Weight each, lbs | 7 | 9 | 10 |
| Each | $1 10 | 1 26 | 1.50 |
| | 1 18 | 1 36 | 1 62 |

## ROSETTE IRONS

Wafer Patty

### WAFER

Doz Sets

No. 1—Wafer, consisting of shallow cast iron moulds and nickeled wire handle; packed in neat display box, weight per dozen sets 12 lbs $ 7 20

### PATTY

Doz. Sets

No. 2—Patty, consisting of two deep cast iron moulds nickeled wire handle; packed in neat display box, weight per dozen sets 18 lbs $ 7.20

Packed, one set in display box

## WAFFLE IRONS

AMERICAN PATTERN

Regular style black japanned rimmed ring, revolving pan with wood handles.

| Nos. | 7 | 8 |
|---|---|---|
| Diameter of pan, inches | 8¾ | 7¾ |
| Diameter bottom of ring, in | 8¾ | 9⅞ |
| Weight per dozen, lbs. | 78 | 98 |
| Dozen | $13 50 | 15.00 |

DEEP RING

Deep ring, black japanned ring, revolving pan with wood handles, for gas or vapor stoves.

| No. | 8D |
|---|---|
| Diameter of pan, inches | 7¾ |
| Diameter bottom of ring, inches | 11 |
| Height of ring, inches | 4 |
| Weight per dozen, lbs. | 126 |
| Dozen | $18.00 |

# CAST STOVE HOLLOW WARE

## CAST IRON, UNGROUND INSIDE

### TEA KETTLES

Black japanned outside, swing cover, ⅜-inch coppered wire bail with black enameled wood grip.

| Nos. | 7 | 8 |
|---|---|---|
| Capacity, quarts | 5 | 6 |
| Diameter bottom, inches | 6 | 7 |
| Weight each, lbs. | 8¼ | 8¾ |
| Each | $0 80 | .90 |
| | 80 | 90 |

### HAM BOILERS

Black japanned outside.

| Nos. | 7 | 8 | 9 |
|---|---|---|---|
| Capacity, gallons | 6 | 7¾ | 9 |
| Diameter top, inches | 20x12 | 22½x12¼ | 24x13¾ |
| Depth, inches | 9½ | 10 | 11 |
| Weight each, lbs. | 20½ | 24 | 29½ |
| Each | $1.90 | 2.26 | 2.60 |
| | 1 90 | 2 25 | 2 50 |

### ADAMS ROUND SAD IRON HEATERS

Cast iron; for gas, gasoline and oil stoves

| No. | 10 |
|---|---|
| Diameter, inches | 10¼ |
| Weight per dozen, lbs. | 35 |
| Dozen | $4 80 |

### LONG SHALLOW CAKE GRIDDLES

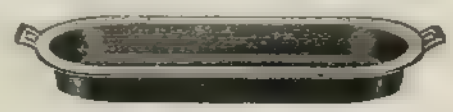
Plain finish outside.

| No. | 9 |
|---|---|
| Size top, inches | 20½x10⅜ |
| Weight each, lbs | 8¾ |
| Each | $0 60 |
| | 60 |

### SHALLOW SAD IRON HEATERS

Plain finish outside.

| No. | 8 |
|---|---|
| Size top, inches | 19x10 |
| Weight each, lbs | 7 |
| Each | $0 60 |
| | .60 |



### DEEP SAD IRON HEATERS

Plain finish outside

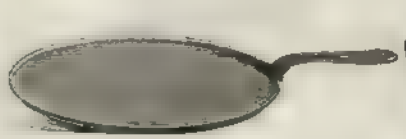
| No. | 8 |
|---|---|
| Size top, inches | 19x9¼ |
| Weight each, lbs. | 8 |
| Each | $0 65 |
| | 65 |

## CAST IRON, GROUND INSIDE

### ROUND BAILED GRIDDLES

Plain finish outside.

| Nos. | 10 | 12 | 14 |
|---|---|---|---|
| Top, in. | 10 | 12 | 13¾ |
| Weight, lbs. | 3½ | 5 | 6 |
| Each | $0.40 | .50 | .65 |
| | .44 | .56 | .72 |



### ROUND HANDLED GRIDDLES

Plain finish outside.

| Nos. | 8 | 9 |
|---|---|---|
| Top, in. | 10 | 11 |
| Weight, lbs. | 2¾ | 3¾ |
| Each | $0.27 | .30 |
| | .30 | .34 |

### SPIDERS

Plain finish outside.

| Nos. | 7 | 8 | 9 | 10 |
|---|---|---|---|---|
| Top, in. | 9⅝ | 10½ | 11 | 11⅝ |
| Bottom, in. | 8¼ | 9 | 10 | 10¼ |
| Weight, lbs. | 3¼ | 4 | 4¼ | 4½ |
| Each | $0.30 | .35 | .40 | .50 |
| | .34 | .38 | .44 | .56 |

### SCOTCH BOWLS

Black japanned outside.

| Nos. | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| Quarts | 3 | 4 | 5 | 6 |
| Top, in. | 9½ | 10¼ | 11 | 12 |
| Depth, in. | 3⅝ | 4⅛ | 4⅜ | 4¾ |
| Weight, lbs. | 4¼ | 5 | 5½ | 6¾ |
| Each | $0.40 | .45 | .50 | .60 |
| | .44 | .50 | .56 | .66 |

Black japanned outside; ⅜-inch coppered wire bail

### FLAT BOTTOM KETTLES

| No. | 8 |
|---|---|
| Quarts | 8 |
| Top, inches | 9½ |
| Weight, lbs. | 7 |
| Each | $0.70 |
| | .70 |

### ROUND BOTTOM KETTLES

| Nos. | 7 | 8 | 9 |
|---|---|---|---|
| Quarts | 6 | 8 | 12 |
| Top, in. | 9½ | 10½ | 11½ |
| Weight, lbs. | 6 | 8 | 9½ |
| Each | $0.65 | .70 | .86 |
| | .72 | .78 | .94 |

### FLAT BOTTOM POTS

| No. | 8 |
|---|---|
| Quarts | 10 |
| Top, in. | 10½ |
| Weight, lbs. | 10½ |
| Each | $0.85 |
| | .94 |

### ROUND BOTTOM POTS

| Nos. | 7 | 8 |
|---|---|---|
| Quarts | 8 | 10½ |
| Top, in | 9½ | 10½ |
| Weight, lbs. | 8 | 10 |
| Each | $0.75 | .86 |
| | .84 | .94 |

# LIGHTERS AND STERLING SILVER MATCH BOXES

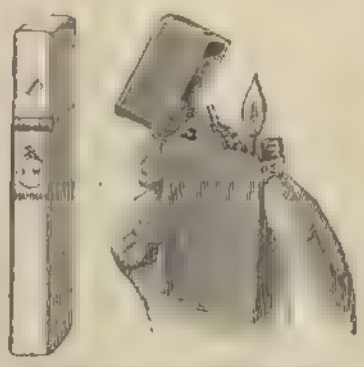
ILLUSTRATIONS ACTUAL SIZE—PRICES EACH

THE "HAHWAY" LIGHTER

Can EASILY be taken apart and ANY part replaced

AUTOMATIC CERIC IRON
POCKET LAMP
AND
CIGAR LIGHTER

Each Lighter Guaranteed



The "Automatic Lighters and Pocket
Consequently they should be con-

LIGHTERS ½ ACTUAL SIZE

STERLING SILVER
MATCH BOX

No. 5966 Match Box $1.80

No. 5961 $7.50
Sterling Silver
One Side Engine Turned

No. 5962 $7.50

No. 5963 $4.50

No. 5964 $1.50
Emblems—Masonic, Odd Fellows,
K. of P., or Elks

No. 5965 $0.75

STERLING SILVER
MATCH BOX

No. 5967 Match Box $1.80

No. 5968 Match Box $1.34

No. 5969 Match Box $1.34

No. 5970 Match Box $1.34

No. 5971 Match Box $1.34

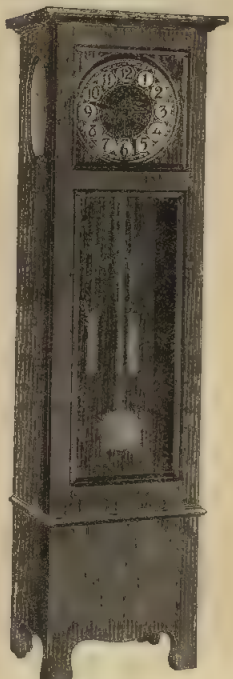
# Hall Clocks

Fitted With Fine American Made Movements. Guaranteed in All Respects.

Our Hall Clocks have Always given Satisfaction. Their Fine Appearance and Low Prices together with the Stylish Effect they produce has largely increased their sale. No other style of clock has the same decorative effect, making the home more pleasant and giving to it a tone of fashionable refinement.

Be Sure and Mention Whether Oak or Mahogany Is Wanted.

**10266**
Oak or Mahogany Finish, Eight-Day, Chain Weight, Half-Hour Strike, Gong,
**$114 65**
Moon's Phases, Beats Seconds, 12-inch Gilt and Silver Dial, Height 91½ Inches, Width 23½ inches. Shipping Weight about 250 lbs.



**10288**
Mahogany or Antique Oak, Silver Finished, 12-inch Dial, Height 72½ inches, Width 20½ inches, Eight-Day, Half-Hour Strike Cathedral Gong.
**$92 75**
Shipping Weight about 183 lbs.

**10270**
Oak or Mahogany Eight-Day, Chain Weight, Half-Hour Strike, Gong, Beats Seconds, 12-inch Gilt and Silver Dial Height 88 inches, Width 22½ inches. Shipping Weight about 190 lbs. **$90 65**

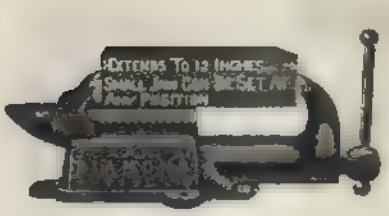
Our Oculometer Is Free to All Merchants. It Enables You to Accurately Test Eyes for Glasses.

# ANVILS AND VISES

## DIAMOND

For small work

As pipe vise




Adjusted for large work

With drill attachment

| | Each |
|---|---|
| No. 94—4 inch steel faced jaws, polished and milled, fitted with adjustable back jaw with cog adjustment; opens to 12 inches, chilled anvil face, ¾ inch polished steel screw, polished sliding handle, painted green, size not including horn 3x7 inches, weight 42½ lbs | $ 6.00 |

Packed, one in case.

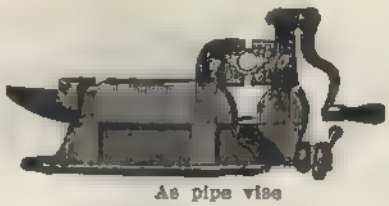
### DRILL ATTACHMENTS

| | Each |
|---|---|
| No. 94A—Without drills, malleable iron crank with polished hardwood handle and brass ferrule, polished drill socket head will take square shank drills up to ⅝ inch; painted green; weight 14½ lbs. | $ 3.10 |

Packed, one in case.

## HANSON

As anvil and vise



As pipe vise

As drill

As saw clamp

| | Each |
|---|---|
| No. 10—Cast iron, painted green, 4 inch milled, adjustable jaws opening to 12 inches, polished anvil face, 7½ inch saw clamp, polished sliding handle; weight 66 lbs. | $ 8.40 |

Packed, one in case.

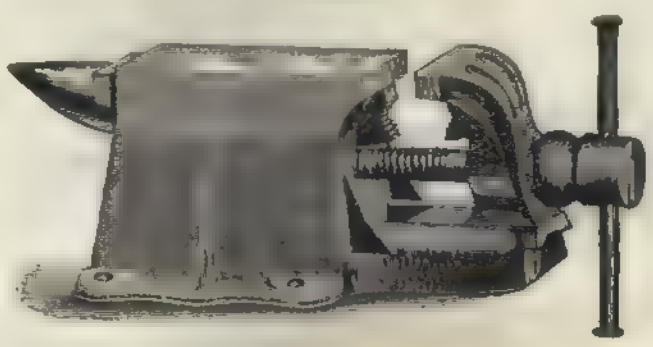
## CHENEY

Built of best car wheel iron, painted green; jaws faced with steel and tempered; solid wrought iron screw with square thread; furnished with a solid steel hardy or cutting off tool; by removing tapered steel pin the adjustable jaws will turn so as to hold odd shaped articles; jaws easily removable; face of anvil always chilled, hard and smooth

| Nos. | 20 | 30 | 40 |
|---|---|---|---|
| Face, inches | 6½x3 | 8x3½ | 8½x4 |
| Jaws, inches | 3⅜ | 3¾ | 4⅛ |
| Opens to, inches | 4 | 5 | 6 |
| Weight, lbs. | 31 | 41 | 55 |
| Each | $8 00 | 9.50 | 11 50 |

Packed, one in crate.

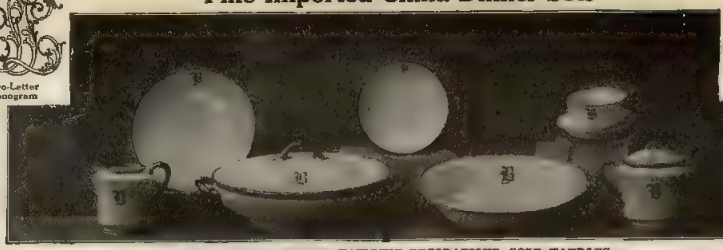
## JULIEN



| | Each |
|---|---|
| No. 1—Cast iron, painted black, 3-inch hardened jaws, steel faces, pipe jaws and vise jaws in one piece; adjustable for pipe from ¼ to 2 inches; hardened anvil face, 3x7 inches, case solid iron reinforced to support anvil, bolted to bench, weight 20½ lbs. | $ 2 20 |

Loose.

# Fine Imported China Dinner Sets



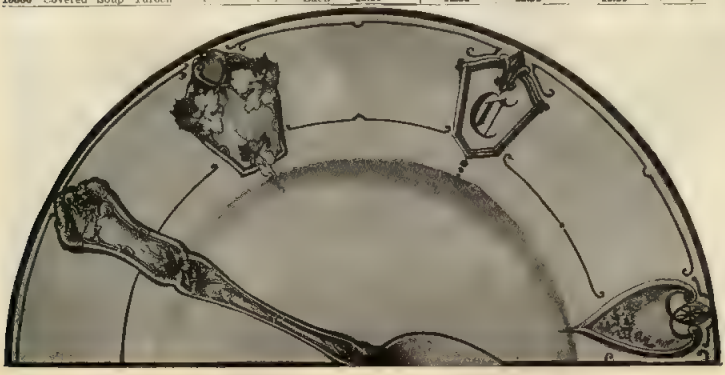
**WHITE GOLD BAND AND HAIRLINE DECORATIONS. GOLD HANDLES.**
**FINE IMPORTED FRENCH (T & V) or GERMAN (K & Co.) CHINA.**

| No. | | | Without Initial | One Old English Initial | Two-Letter Monogram | Three-Letter Monogram |
|---|---|---|---|---|---|---|
| 16040 | 12 Dinner Plates | Per doz | $20.90 | $25.35 | $27.10 | $28.30 |
| 16041 | 12 Tea Plates | Per doz | 15.25 | 19.65 | 21.60 | 23.35 |
| 16042 | 12 Bread and butter Plates | Per doz | 10.50 | 15.25 | 17.65 | 19.90 |
| 16043 | 12 Soup Plates | Per doz | 17.10 | 21.60 | 23.25 | 25.10 |
| 16044 | 12 Fruit Saucers | Per doz | 10.90 | 15.25 | 17.15 | 18.90 |
| 16045 | 12 Tea Cups and Saucers | Per doz | 20.25 | 24.65 | 26.40 | 28.25 |
| 16046 | 1 Covered Dish, Oval | Each | 12.00 | 12.25 | 12.50 | 12.90 |
| 16047 | 1 Casserole | Each | 13.00 | 13.25 | 13.50 | 13.90 |
| 16048 | 1 10-Inch Platter | Each | 5.75 | 6.25 | 6.50 | 6.90 |
| 16049 | 1 14-Inch Platter | Each | 11.15 | 11.60 | 11.85 | 12.25 |
| 16050 | 1 Pickle Dish | Each | 3.25 | 3.75 | 4.00 | 4.35 |
| 16051 | 1 Sauce Boat | Each | 7.80 | 8.00 | 8.25 | 8.50 |
| 16052 | 1 Covered Butter Dish | Each | 6.40 | 6.90 | 7.15 | 7.40 |
| 16053 | 1 Sugar Bowl and Cream Pitcher | Per pair | 8.60 | 8.90 | 9.25 | 10.00 |
| 16054 | 1 Baker | Each | 5.15 | 5.60 | 5.85 | 6.10 |
| 16055 | Complete Set, 97 pieces, as listed above | | $166.80 | $197.45 | $211.20 | $234.60 |

## White Gold Band and Hairline Decorations

**GENUINE HAVILAND (HAVILAND & CO., FRANCE) CHINA.**

| | | | Without Initial | One Old English Initial | Two-Letter Monogram | Three-Letter Monogram | Etched Medallion | Etched Medallion with One Old English Letter See illustration below |
|---|---|---|---|---|---|---|---|---|
| 16056 | 36 Dinner Plates | Per doz | $23.30 | $27.80 | $29.60 | $33.00 | $56.00 | $58.90 |
| 16057 | 12 Breakfast Plates | Per doz | 22.30 | 26.70 | 28.50 | 30.30 | 51.60 | 54.50 |
| 16058 | 12 Lunch Plates | Per doz | 20.00 | 24.50 | 26.30 | 28.00 | 49.90 | 52.25 |
| 16059 | 12 Bread and Butter Plates | Per doz | 15.60 | 20.00 | 21.90 | 23.60 | 42.90 | 45.60 |
| 16060 | 12 Soup Plates | Per doz | 20.00 | 24.50 | 26.30 | 28.00 | 51.60 | 54.50 |
| 16061 | 12 Sauce Dishes | Per doz | 15.60 | 20.00 | 21.90 | 23.60 | 42.90 | 45.60 |
| 16062 | 12 Tea Cups and Saucers | Per doz | 25.50 | 29.70 | 31.50 | 30.30 | 66.00 | 67.80 |
| 16063 | 12 Afternoon Dinner Cups and Saucers | Per doz | 21.90 | 25.60 | 27.30 | 29.10 | 62.25 | 64.50 |
| 16064 | 12 Bouillon Cups and Saucers | Per doz | 30.00 | 34.50 | 36.30 | 38.00 | 72.90 | 76.70 |
| 16065 | 1 13-Inch Platter | Each | 6.70 | 7.30 | 7.50 | 7.60 | 10.85 | 13.70 |
| 16066 | 1 15-Inch Platter | Each | 9.70 | 10.30 | 10.50 | 10.70 | 14.00 | 14.50 |
| 16067 | 1 17-Inch Platter | Each | 15.80 | 16.00 | 16.30 | 16.50 | 21.25 | 21.80 |
| 16068 | 1 20-Inch Platter | Each | 23.30 | 23.50 | 24.10 | 24.50 | 30.25 | 30.70 |
| 16069 | 1 Open Vegetable Dish, Round | Each | 7.80 | 8.00 | 8.20 | 8.50 | 9.80 | 10.00 |
| 16070 | 1 Open Vegetable Dish, Oval | Each | 7.10 | 7.30 | 7.50 | 8.00 | 9.50 | 10.00 |
| 16071 | 1 Covered Vegetable Dish, Oval | Each | 12.90 | 13.25 | 13.80 | 14.20 | 16.90 | 17.30 |
| 16072 | 1 Casserole | Each | 12.90 | 13.35 | 13.80 | 14.20 | 16.90 | 17.20 |
| 16073 | 1 Sugar Bowl | Each | 6.70 | 7.20 | 7.40 | 7.80 | 7.80 | 8.25 |
| 16074 | 1 Cream Pitcher | Each | 4.80 | 4.90 | 5.00 | 5.60 | 5.60 | 6.25 |
| 16075 | Complete Set, 166 pieces, as listed above | | $300.80 | $341.30 | $361.10 | $381.50 | $638.70 | $687.15 |
| | **OTHER PIECES TO MATCH ABOVE** | | | | | | | |
| 16076 | Chocolate Pot, capacity 1 cups | Each | $ 9.30 | $ 9.60 | $10.00 | $10.30 | $15.10 | $15.50 |
| 16077 | Chocolate Pot, capacity 6 cups | Each | 8.90 | 9.20 | 9.60 | 10.00 | 14.80 | 12.85 |
| 16078 | 12 Chocolate Cups and Saucers | Per doz | 26.70 | 31.20 | 32.90 | 34.70 | 64.00 | 66.90 |
| 16079 | Tea Pot, capacity 12 cups | Each | 8.90 | 9.30 | 9.60 | 10.00 | 15.10 | 15.60 |
| 16080 | Tea Pot, capacity 6 cups | Each | 8.50 | 8.90 | 9.20 | 9.70 | 11.60 | 12.25 |
| 16081 | Sugar Bowl, small | Each | 5.50 | 6.30 | 6.50 | 6.90 | 6.25 | 6.70 |
| 16082 | Cream Pitcher, small | Each | 3.60 | 4.00 | 4.30 | 4.70 | 4.70 | 5.10 |
| 16083 | Cake Plate, diameter, 11 inches | Each | 4.80 | 5.30 | 5.80 | 6.30 | 6.90 | 9.25 |
| 16084 | Chop Dish, diameter, 13 inches | Each | 5.60 | 6.30 | 6.70 | 7.20 | 9.60 | 10.00 |
| 16085 | Mayonnaise Set | Per set | 7.30 | 7.80 | 8.00 | 8.50 | 11.80 | 12.25 |
| 16086 | Covered Soup Tureen | Each | 13.00 | 12.50 | 12.90 | 13.30 | - | - |



The latest and highest achievement in the art of china painting.

Fine Haviland china dinner ware, in design to match any pattern of silverware desired. With or without engraving to correspond, making a complete and beautiful appointed table, appreciated by every housewife.

Illustration shows a few popular designs.

# Fine Genuine Haviland China Dinnerware

All sets are standard 100 pieces consisting of the following: 1 dozen dinner plates, 1 dozen dessert plates, 1 dozen soup coupes, 1 dozen sauce plates, 1 dozen butter chips, 1 dozen tea cups, 1 dozen saucers, 1 open oval vegetable dish, 1 covered round baker, 1 covered oval casserole, 1 covered sugar, 1 creamer, 1 3-piece butter dish, 1 sauce boat and tray, 1 small platter or celery tray. 1 10-inch platter, 1 16-inch platter.

Soft pink, full blown poppy sprays, set off by small white buds and trailing green leaves, natural effect. All handles traced in gold
No. 79463 100-piece set complete.....per set $84.20

Artistic border of small, delicate pink shads, forget-me-nots entwined with trailing vine and green leaves. All handles traced in gold.
No. 85822 100-piece set complete.....per set $113.00

Border of conventional ivy leaves in natural color with a background of softer green and brown. Hairline gold edges, handles ½ mat gold
No. 86063 100-piece set complete.....per set $151.70
All of our Haviland China sets are open stock. Quotations on separate pieces furnished upon request. Shippped F. O. B. New York

# ARTIFICIAL BAITS

## HEDDON WOODEN MINNOWS

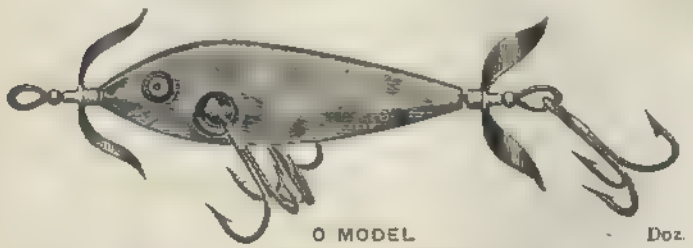
These baits are for casting, trolling or skittering and are wonderfully successful on all species of game fishes, every minnow is coated with from seven to twelve coats of special Dowagiac porcelain enamel; guaranteed not to peel; all metal parts are nickel plated, the highest class artificial baits on the market.

| | Doz. |
|---|---|
| No. ST150M—Fancy green back; white belly; five treble hooks; length 3¾ inches; weight per dozen 3 lbs. | $13 60 |
| No. ST151M—Rainbow colors consisting of green back; pink and yellow sides and white belly; otherwise same as No. ST150M | 13 60 |
| No. ST152M—White body with slate colored back; otherwise same as No. ST150M | 13 60 |
| No. ST154M—Red body with dark green back; yellow belly; reddish sides; fancy sienna back; otherwise same as No. ST150M | 13 60 |
| No. ST159A Yellow perch otherwise same as No ST150M | 13.60 |
| No. ST159B—Green spotted imitation frog colors, otherwise same as No. ST150M | 13 60 |

Packed, one in box.

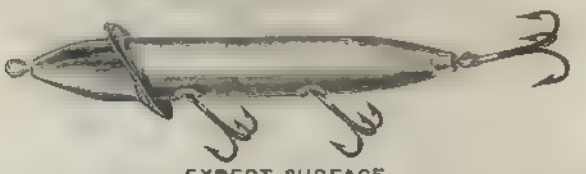
| | Doz |
|---|---|
| No. ST100M Fancy green back; white belly; three treble hooks, length of body 2¾ inches; weight per dozen 3 lbs. | $12 00 |
| No. ST101M—Rainbow colors, consisting of green back, pink and yellow sides and white belly; otherwise same as No. ST100M | 12.00 |
| No. ST102M White body with slate colored back, otherwise same as No. ST100M. | 12.00 |
| No. ST104M—Red body with dark green back otherwise same as No. ST100M | 12.00 |
| No. ST109A—Yellow perch; otherwise same as No. ST100M | 12.00 |
| No. ST109B—Green spotted imitation frog colors; otherwise same as No. ST100M | 12 00 |

Packed, one in box



O MODEL

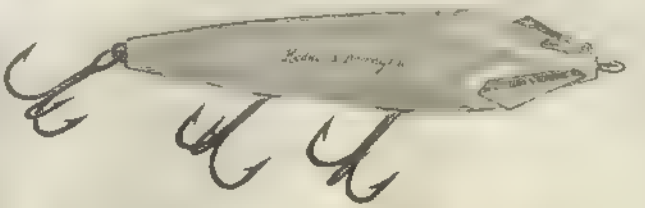
| | Doz. |
|---|---|
| No. ST0M—White body; mottled and decorated with red and green; three treble hooks; length of body 2 inches; weight per dozen 2 lbs. | $ 7 92 |
| No. ST01M -Yellow body; mottled and decorated with red and green; otherwise same as No. ST0M | 7 92 |
| No. ST02M—Red body; mottled and decorated in dark green, otherwise same as No. ST0M | 7 92 |



EXPERT SURFACE

| | Doz. |
|---|---|
| No. ST200M—White body; blue head; red collar; three treble hooks; length of body 4¾ inches; weight per dozen 2½ lbs. | $13 60 |
| No. ST201M—Entire bait is grass green and spotted; otherwise same as No. ST200M | 13 60 |
| No. ST200L—Luminous body, red head, otherwise same as No. ST200M | 16.00 |

Packed, one in box.



Floats until retrieved; it dives under the water from one to two feet; has a motion similar to a live fish.

| | Doz. |
|---|---|
| No. ST1700M—Mottled green back; white belly; length 4½ inches; weight per dozen 2¼ lbs. | $12 00 |
| No. ST1701M Special; white body, red and green spotted, otherwise same as No. ST1700M | 12 00 |
| No. ST1702M—White body with red head; otherwise same as No. ST1700M | 12 00 |
| No. ST1709B—Imitation frog colors; otherwise same as No ST1700M | 12 00 |

Packed, one dozen in carton

SURFACE

Made of soft wood; tapered, with rounded body and ends, finished smooth; fitted with metal disc spinners; armed with three gangs of hooks, which may be single or treble as desired; painted by patent process in either white, yellow or yellow mottled color; especially designed for trolling for large fish.

| | Doz. |
|---|---|
| No. ST122B—White; length 3½ inches; weight per dozen 2½ lbs | $ 8 00 |
| No. ST123B—Yellow; otherwise same as No. ST122B | 8 00 |
| No. ST124B—Yellow mottled, otherwise same as No ST122B | 8.00 |

Packed, one in box.

## SOUTH BEND

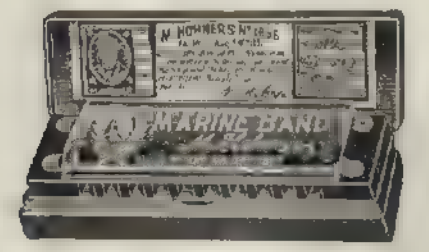
| | Doz. |
|---|---|
| No. ST923—Woodpecker; surface minnow; white body; red head; two treble hooks; length 4½ inches; weight per dozen 3½ lbs. | $ 7.20 |

Packed, one in box.

| | Doz |
|---|---|
| No. ST913—Panetella; slender shape underwater minnow; green cracked back; white belly; three treble hooks; length 4¼ inches; weight per dozen 3½ lbs. | $ 8.72 |

Packed, one in box.

## HARMONICAS




Doz.

No. K1896 Marine Band; 10 holes, 20 reeds; keys A, B, C, D, E, F and G; heavily nickel plated case; polished brass reed plates; heavy convex covers; open back; weight per dozen 2¾ lbs ..... $ 5.28

Packed, one in cardboard case; one-half dozen in package

Doz

No. K481 Marine Band Echo; 10 holes, 20 reeds; keys A, B, C, D, E, F and G; sound chamber for each reed; heavily nickel plated case; polished brass reed plates; handsome in appearance; weight per dozen 3 lbs ..... $ 5.28

Packed, one in cardboard case; one-half dozen in package

Doz.

No. K3CND Full concert, 10 double holes, 40 reeds; keys A, B, C, D, E, F and G; heavily nickel plated case; highly polished brass reed plates; handsome in appearance and a good seller; weight per dozen 2½ lbs ..... $ 9.60

Packed, one in cardboard case; one half dozen in package

Doz

No. K18960 Octave Marine Band, 10 double holes, 10 reeds, heavy case, convex sides, heavily nickel plated, polished brass reed plates; full concert size; handsome in appearance; good value; weight per dozen 3 lbs ..... $10.08

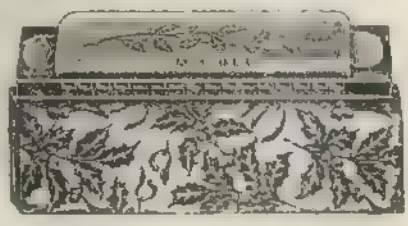
Packed, one in cardboard case; one half dozen in package

Doz.

No. K689—Holly; 14 double holes; 28 tremolo tuned reeds; polished brass reed plates; nickel plated covers; holly decorations in colors on one side only; weight per dozen 1¼ lbs ..... $ 5.28

No. 588—Holly; 16 double holes; 32 tremolo tuned reeds, brass reed plates; silver plated covers; holly decorations in colors on one side only; weight per dozen 1½ lbs ..... 8.36

Packed, one in holly box; one-half dozen in package



## ASSORTMENTS

Asst

No. K426—Contains one dozen assorted selected harmonicas, to retail at 25 cents each, mounted on a handsome easel display board; weight 4 lbs $ 4.80

No. K572—Contains one dozen assorted choice selected harmonicas, to retail at 50 cents each mounted on a handsome easel display board weight 5¼ lbs ..... 9.60

Packed, one assortment in cardboard box

Handsome collapsible display cabinet, which has three trays; made of the best seasoned wood handsomely finished in a rich dark mahogany, very rigid and strong, the cabinet when open displays its entire contents; size of case when folded 10½x9x5 inches; contains a good line of Hohner's most popular sellers, as follows: 16 pieces to retail at 25 cents each; twelve pieces to retail at 35 cents each; 10 pieces to retail at 50 cen s each.

Asst

No. K400HAL—Containing four dozen assorted harmonicas; weight per assortment 11 lbs ..... $21.60

Packed, one assortment in cardboard box.

## HARMONICAS

### ASSORTMENTS

Revolving display stand, built of thoroughly seasoned wood ¼ inch in thickness; in the shape of an obelisk and mounted on a nickel disk connected by means of a cylindrical bar to a set of durably constructed clockworks of sufficient strength to revolve with one winding; entire stand is finished in mahogany piano polish, and measures 32 inches high; 10½ inches wide at base, and 6¾ inches square at top; nickel plated steel clamps to hold harmonicas in place, and prices stenciled on case in silver; consists of 36 harmonicas assorted styles and keys as follows: 12 to retail at 25 cents; 8 at 35 cents; 8 at 50 cents; 4 at 75 cents, and 4 at $1.00

Asst.

**No. K600A** Contains three dozen assorted harmonicas; complete with stand; weight per assortment 40 lbs.....$29 00

Packed, one assortment in wood box

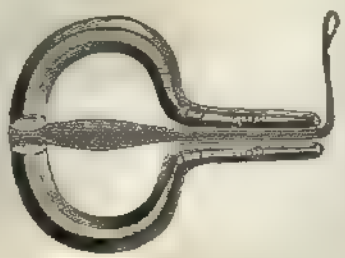
**No. K601A**—Without stand; contains three dozen harmonicas as described above; weight 6 lbs.. ... $27.00

Packed, one assortment in box

This assortment can be used as a filler for No. K600A.

## JEWS' HARPS

### IRISH CLUB



Wrought iron frame; blued steel tongue.

Doz

**No. K019**—2½ inch; weight per dozen 1 lb.....$ 0.60

**No. K021**—3-inch; weight per dozen 1½ lbs... .90

Packed, three dozen in cardboard box.

## POCKET MATCH SAFES

No. K10M

No. K298

**No. K10M**—Nickel plated brass case; spring top; 2⅞x1⅛ inches; weight per dozen ⅝ lb.....$ 1.20

**No. K298**—Miners' heavily nickel plated seamless case; telescope top; diameter ⅞-inch; length 2¾ inches; weight per dozen ½ lb..... 1.80

Packed, one dozen in cardboard box.

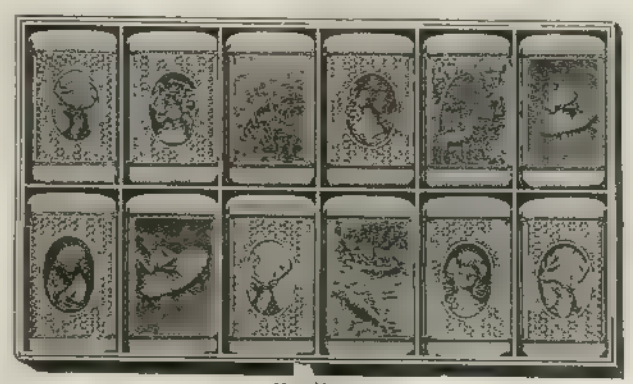
No. K84

No. K196

**No. K84**—Nickel plated brass case; spring top; 2¾x1⅜ inches; weight per dozen ¾ lb.....$ 1.60

**No. K196**—Heavily nickel plated brass case; oxidized raised figures; hinge top; length 2¼ inches; width 1½ inches; weight per dozen 1¼ lbs..... 3.00

Packed, one dozen in cardboard box.



No. K180

### ASSORTMENTS

Oxidized silver and imitation pearl finish sides; raised figures; heavily nickel plated brass case; hinge top; handy and convenient size for vest pocket.

Asst

**No. K180**—Consists of one dozen assorted styles; size 2¾x1½ inches; weight 1½ lbs.....$ 4.00

**No. K160**—Consists of one dozen assorted styles with cigar cutter in end of case; otherwise same as No. K180..... 4.00

Packed, one assortment in cardboard display box.

# Extra Quality Quadruple Silver Plated Flasks

PRICES EACH

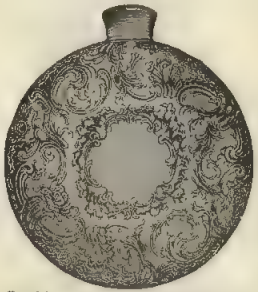
Black inlaid engraving, cut ⅛ size. Homan Mfg. Co.
No. H653 ..... $6.66

Butler finished, engraved, cut ⅛ size. Homan Mfg. Co.
No. H672 ..... $7.25

Burnished, etched. Height, 6¼ inches. Collapsion cup top, gold lined. Victor Silver Co.
No. V1840 ..... $11.70

Satin engraved. Cut ⅛ size. Homan Mfg. Co.
No. H669 ..... $7.25

Satin engraved. Cut ⅛ size. Homan Mfg. Co.
No. H668 ..... $7.25

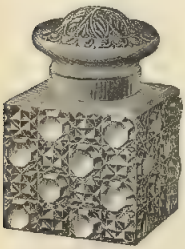


Burnished and engraved. Cut ⅛ size. Homan Mfg. Co.
No. H2302 ..... $6.10

**CIGAR JAR**

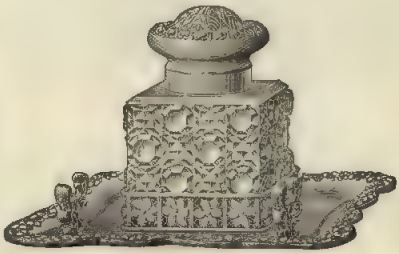
Etched, gray and burnished cover. Fitted with sponge holder. Cut glass effect. Colonial jar. Height, 5⅝ inches. Diameter, 3¾ inches. E. G. Webster & Son
No. W54 ..... $3.50

# Extra Quality Quadruple Silver Plated Ink Stands and Thermometer



**INK BOTTLE**

Crysta. bottle French gray cover. Height, 3¾ inches. Homan Mfg. Co.
No. H1237 ..... $3.70



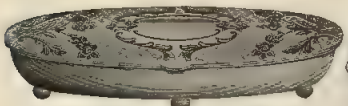
**INK STAND**

Crystal bottle, satin tray, burnished cover. Height, 3¾ inches; length, 6 inches. Homan Mfg. Co.
No. H1238 ..... $8.75

**THERMOMETER**

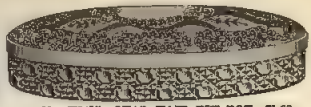
Burnished, engraved. Height, 5½ inches. E. G. Webster & Son
No. W270 ..... $5.00

# Extra Quality Quadruple Silver Plated Toilet Articles



No. **H3432 HAIR PIN OR TRINKET BOX**—$1.85
Burnished, engine turned and engraved. Length 4¼ inches. Homan Mfg. Co.

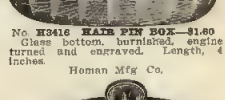
No. **H205 COLLAR BUTTON BOX**—$1.85
Bright silver finish. Length, 2⅛ inches. Homan Mfg. Co.



No. **H3417 OVAL HAIR PIN BOX**—$1.60
Crystal glass, burnished, engine turned and engraved cover. Length, 5⅝ inches. Homan Mfg. Co.

No. **H3431 HAIR PIN OR TRINKET BOX**—$1.85
Burnished, engine turned and engraved. Length, 3⅝ inches. Homan Mfg. Co.

No. **H131 TRINKET BOX**—$2.00
Satin engraved, cut one-half size. Homan Mfg. Co.



No. **H3416 HAIR PIN BOX**—$1.60
Glass bottom, burnished, engine turned and engraved. Length, 4 inches.
Homan Mfg. Co.

No. **W9 STAMP BOX**—$2.95
Pierced, French gray, wreath decoration. Length, 2⅝ inches. E. G. Webster & Son

No. **H314 STAMP BOX**—$2.00
Embossed, gold lined, cut full size. Homan Mfg. Co.

**COLLAR BUTTON BOX**
Etched, French gray. Height, 2¼ inches.
No. **W4** .....$3.10
E. G. Webster & Son

**COLLAR BUTTON BOX**
Burnished, engraved, silk lined. Height, 2½ inches.
No. **W1** .....$1.85
E. G. Webster & Son

**COLLAR BUTTON BOX**
Burnished, engine turned and engraved. Height, 1⅞ inches.
No. **H5060** $3.50 Homan Mfg. Co.

**HAIRPIN AND TRINKET STAND**
French gray finish, gold lined. Height, 4 inches.
No. **H2469** $3.55 Homan Mfg. Co.

**STAMP BOX**
With partition, engraved, gold lined. Cut half size.
No. **H1799** .....$3.80
Homan Mfg. Co.

**STAMP AND PEN BOX**
Bright silver finish. Length, 2¼ inches.
No. **H204** .....$1.85
Homan Mfg. Co.

No. **H1798 STAMP BOX**.....$3.00
Burnished and engraved. Cut full size.
Homan Mfg. Co.

No. **H2456 BUTTON BOX** $1.70
Burnished and engraved. Height, 1½ inches. Homan Mfg. Co.

**HAT PIN HOLDER**
Burnished, engraved. Has cork pin holder in bottom. Height, 4¼ inches.
No. **W2** .....$3.35
E. G. Webster & Son

**TRINKET BOX**
Satin lined, satin engraved. Height, 1⅞ inches.
No. **H1797** .....$2.00
Homan Mfg. Co.

**COLLAR BUTTON BOX**
Burnished, engraved, satin lined. Height, 2 inches.
No. **H1795** $2.00 Homan Mfg. Co.

No. **H1728 TRINKET BOX** $1.85
Satin lined, satin engraved. Cut one-half size. Homan Mfg. Co.

# Fine Sterling Silver, Leather and Brass Novelties

Warranted to Give Satisfaction.

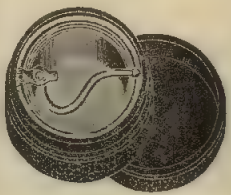
**7925**
Glass Flask, One Top with Genuine Pig Skin, Hand Stitched and Sterling Silver Removable Base, Sterling Silver Cap, Illustration One-Half Size.
**$15 00** each.

**7926**
Fine Steel Cap Remover, Horn Handle, Length 5¼ Inches,
**$1 00** each.

**7927**
Fine Steel Cap Remover, Sterling Silver Handle, Gray Finish, Length 6¼ inches,
**$1 60** each

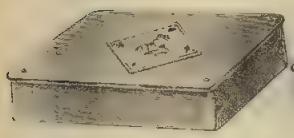
**7928**
Fine Steel Cork Puller Sterling Silver Handle, Illustration One-Half Size,
**$7 50** each.

**7929**
Fine Steel Folding Cork Puller, Sterling Silver Handle, Illustration Full Size,
**$3 60** each.

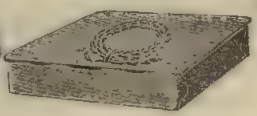


**7930**
Collapsion Cup, in Black Seal Leather Case, Sterling Silver Name Plate,
**$1 90** each.

**7931**
Collapsion Cup, In Fine Morocco Leather Case, Sterling Silver Name Plate,
**$1 90** each.

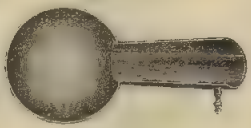


**7932**
Hammered Brass Playing Card Case, Floral Design, Contains Pencil and Score Card, Size 4 x 2¾ x 1 Inches,
**$1 70** each.



**7933**
Hammered Brass Trinket Box, Raised Wreath, Size 3½ x 2½ x 1 Inches,
**$1 30** each.

**7934**
Hammered Brass Ash or Pin Tray, Etched Design, Length 7 Inches,
**$0 80** each



**7935**
Hammered Brass Ash Tray, Length 4 Inches,
**$0 40** each.

All Prices Subject to the Regular Discount, Except Those on Diamonds. Pages 1 to 16.

# SADDLES

PRICES EACH

**STOCKMAN'S SADDLE**

Morgan tree, unlined skirts, 1 inch stirrup leathers with fenders, 1 inch tie strap, 4 inch cinchas made of solid woven hair, wood stirrups.

No. 8285. Each.....**$24.85**

**STOCKMAN'S SADDLE**

Made of russet skirting. Steel fork, hide covered, 14 inch tree, wool sheep-skin covered bars, 21 inch skirt, 1½ inch stirrup leathers to buckle, 1 inch tie strap, 2½ inch white B. B. web cinchas, 4 inch Texas wood stirrups.

No. 8197. Each.....**$35.50**

**STOCKMAN'S SADDLE**

Made of glazed California skirting, "Western" steel fork, hide covered, 14½ inch tree, 21½ inch wool lined skirts, sole leather stamped flower seat with steel strainer and beaded roll, cantle stirrup leathers, 1½ inch to lace raised and beaded gullet, 1¼ inch tie straps on near side, 1½ inch lagotia straps to buckle on off side, covered rings, twenty strand, white fingers cinchas, 3 inch Cali fornia pattern leather bar and bottom stirrups.

No. 8145. Each ..**$53.20**

**STOCKMAN'S SADDLE**

Made of russet skirting, "Trinidad" steel fork, hide covered, large swell front, 15 inch tree, 24 inch felt lined skirts, full extended seat, steel strainer, leather bound cantle, seat and jockeys in one piece, 2 inch stirrup leathers to lace raised and beaded hand stamped gullet laced on the sides, long head strings lariat strap on off side, 1¼ inch latigo straps to buckle, 20 strand white Texas cotton with tongues, cinchas, 4 inch Texas bolt stirrups.

No. 8089. Each .. .**$77.30**

**HORN MORGAN SADDLE**

Russet Horn morgan, hide covered, 13 inch tree, ⅝ inch stirrup leathers with fenders, ⅝ inch stirrup leathers, super cotton girth, 2 inch wood stirrups.

No. 8295. Each. - - **$17.65**

**HORN MORGAN SADDLE**

Russet Morgan, hide covered, 13 inch tree, 1 inch stirrup leathers with fenders, 1 inch tie strap, solid woven hair cinchas, wood stirrups.

No. 8270. Each.....**$17.75**

**McCLELLAN SADDLE**

Black McClellan, hide covered, 14 inch tree, uncovered seat, black skirting leather skirt, 1 inch stirrup leathers, 1 inch tie straps, 4 inch soft woven hair cinchas, 2 inch wood stirrups.

No. 8385. Each.....**$18.45**

**MILEY MORGAN SADDLES**

Russet, 13 inch Miley morgan tree, all over leather covered seat, hand hold on near side, 1¼ inch tie straps, 1¼ inch stirrup leathers, 4 inch soft woven hair cinchas, 4 inch Texas bolt stirrups.

No. 8345. Each .....**$22 95**

**ENGLISH RIDING SADDLE**

Full covered seat, 16½ inch somerset tree, pigskin impression skirts, full pad, oil cloth faced, duck lined, ⅝ inch stirrup leathers, common cotton girth, 3 inch wood stirrups.

No. 5521 Each.....**$11.35**

**BOYS' SADDLE**

Russet, 11 inch morgan tree, all over covered seat, 1 inch stirrup leathers to buckle, 1 inch tie straps, 3½ inch white back band, cinchs, covered stirrups.

No. 5633. Each.....**$19.35**

**LADIES' ASTRIDE SADDLE**

Pigskin covered seat, 15 inch somerset tree, pigskin impression skirts with genuine pigskin knee and thigh puff, full pad cotton, flannel lined, 1 inch stirrup leathers, super cotton girth, ,adies' covered stirrups.

No. 5560. Each.....**$24.85**

**LADIES' SIDE SADDLE**

Leather seat, ornamenta stitched, 18 inch morgan tree, pigskin impression skirts, bars padded, sheep-skin lining, hair stuffed pad, 1¼ inch tie straps, ⅝ inch stirrup leathers, 4 inch solid woven soft hair cinchs, XC shoe stirrup buckle, skin lined leaping horn, seamed.

No. 5820. Each .....**$32.10**

# HOSE PIPES

SWIVEL HANDLE

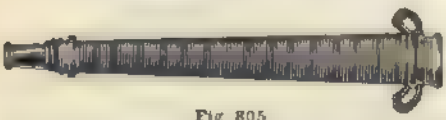


Fig 805

WITH COCK

Fig 806

## SWIVEL HANDLE

| Size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length | inches | | | | | | | |
| Price, wood and pearl | each | 9 00 | 11 00 | 12 00 | 15 00 | | | |
| " Plain brass | " | 7 50 | 9 50 | | 00 | | | |
| " Rubber tube, swivel ends | | | | | 00 | | | |
| " Leather " " | | | | | | | | |

## WITH COCK

| Size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length | inches | | 8 | | 8 | 12 | | |
| Price, hose thread | per dozen | 1 00 | 3 00 | | 15 00 | 20 00 | 40 00 | 55 00 |
| " Pipe " | " | 1 | 14 20 | | 19 20 | 18 00 | 2 | |

| Size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length | inches | | 20 | | | | | |
| Price, hose thread | per dozen | 80 00 | 110 00 | 130 00 | 160 00 | 175 | | 215 00 |
| " Pipe | " | | 15 00 | | 70 00 | 185 | | 225 00 |

PLAIN

Fig 807

SCREW TIP

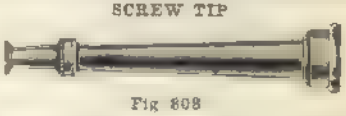


Fig 808

## PLAIN

| Size | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Length | inches | | 4 | | 4 | 8 | | | |
| Price, hose thread | per dozen | 5 00 | 7 00 | | 9 00 | | 11 00 | 15 00 | |
| " Pipe " | " | 6 00 | 8 00 | | 2 00 | | 17 | | |

| Size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length | inches | 12 | | | | | | |
| Price, hose thread | per dozen | 20 00 | 22 00 | 26 00 | | | | |
| " Pipe " | " | 22 00 | 24 00 | 29 00 | | | | |

## SCREW TIP

| Size | inches | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Length | inches | 6 | | 12 | | 12 | | 15 | |
| Price, hose thread | per dozen | 7 00 | 8 00 | 10 00 | 10 00 | 12 00 | 20 00 | 24 | 25 00 |
| " Pipe " | " | 8 00 | 9 20 | 11 20 | 11 20 | 13 20 | 21 20 | 25 | 2 |

| Size | inches | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Length | inches | 20 | 12 | 15 | 20 | | 20 | 24 | 30 |
| Price, hose thread | per dozen | 36 00 | 38 00 | 45 00 | 50 00 | 75 00 | 96 00 | 100 00 | 144 00 |
| " Pipe " | " | 00 | 41 00 | 48 00 | 53 00 | 75 50 | 99 50 | 103 50 | 150 00 |

Fig 809

## DIAMOND

| Size | inches | |
|---|---|---|
| Price | per dozen | 1 00 |

# HOSE COUPLINGS

SPUN

Fig. 810

PLAIN

Fig. 811

LUG

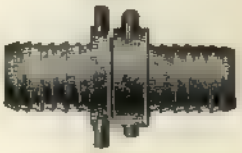


Fig. 812

## SPUN BRASS COUPLINGS

| Size ..... inches | 3/8 | 1/2 | 5/8 | 3/4 |
|---|---|---|---|---|
| Price ..... per dozen | 2.40 | 2.40 | 2.40 | 2.40 |

## PLAIN AND LUG BRASS COUPLINGS

| Size ..... inches | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
|---|---|---|---|---|---|---|---|
| Price, hose thread ..... per dozen | 2.40 | 2.40 | 2.40 | 4.40 | 10.00 | 12.00 | 24.00 |
| " Pipe " ..... " | 2.65 | 2.65 | 2.65 | 4.65 | 10.50 | 13.80 | 26.80 |

| Size ..... inches | 2 1/2 | 3 | 3 1/2 | 4 | 5 | 6 | 8 |
|---|---|---|---|---|---|---|---|
| Price, hose thread ..... per dozen | 48.00 | 72.00 | ..... | ..... | ..... | ..... | ..... |
| " Pipe " ..... " | 50.00 | 76.00 | 120.00 | 180.00 | 250.00 | 500.00 | 600.00 |

3/8, 1/2, 3/4 and 1-inch couplings have no lugs; 1 1/4, 1 1/2, 2 and 2 1/2 inch sizes have lugs on female swivel only; 3 inch size and larger have lugs on both swivels.

STEAM

Fig. 813

AIR DRILL

Fig. 814

## BRASS STEAM HOSE COUPLINGS

| Size ..... inches | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 |
|---|---|---|---|---|---|---|---|
| Price, screw or nipple thread ..... per dozen | 15.00 | 15.00 | 18.00 | 24.00 | 30.00 | 42.00 | 72.00 |

## BRASS AIR DRILL COUPLINGS

Sizes and prices of these couplings furnished on application

MILL EXPANSION

Fig. 815

EXPANSION RING

Fig. 816

## BRASS MILL EXPANSION COUPLINGS AND RINGS

| Size ..... inches | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 |
|---|---|---|---|---|---|
| Diam. of tail, mill. expansion, cotton rubber-lined hose ..... inches | 1 1/16 | 1 5/16 | 1 5/8 | 2 1/16 | 2 5/8 |
| " " " " " unlined linen hose ..... " | 1 | 1 1/4 | 1 1/2 | 2 1/16 | 2 3/4 |
| Width of ring ..... " | 3/4 | 3/4 | 3/4 | 1 1/4 | 1 1/4 |

Prices of above furnished on application

# WATCHES

## INGERSOLL

No. K50W

No. K51W

No. K20W

Eclipse; 16 size; open face; white dial; snap back, plain, solid nickel case; stem wind and set; sunken second dial. Each

No. K50W Weight 3 oz. ..... $ 2.10

Packed, one in cardboard box; one dozen in carton

Junior; 12 size; open face; white dial; snap back, plain solid nickel case; stem wind and set; sunken second dial; antique bow and crown. Thin model. Each

No. K51W—Weight 2½ oz. ..... $ 2.70

Packed, one in lined cardboard box; one dozen in carton

Midget; 6 size; open face; white dial; snap back, beaded edge, solid nickel case; stem wind and set; sunken second dial; two piece movement plate. Each

No. K20W—Weight 2 oz. ..... $ 2 70

Packed, one in lined cardboard box; one dozen in carton

### ASSORTMENT

Assortment; contains all the best sellers in the proportion which the customers buy them; combination display tray and easel, lined with green velvet; size 11x16 inches.

Asst.

No. K24W—Contains three dozen watches; 12 Yankee, nickel finish; two Yankee gun metal finish; eight Eclipse solid nickel case; two Eclipse gun metal finish; six Junior solid nickel case; two Junior gun metal finish; three Midget solid nickel case; one Midget gun metal finish; complete with display case ..... $71 50

Packed, one assortment in shipping carton

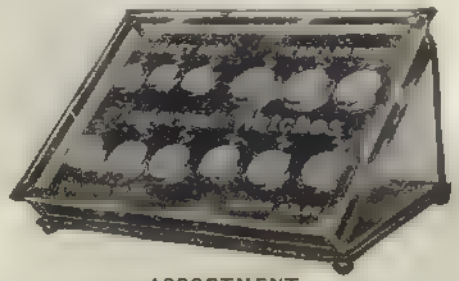
All Ingersoll watches are guaranteed by the manufacturers, therefore any Ingersoll watch proving defective, must be returned direct to them, accompanied with ten (10) cents to cover cost of postage.

### ASSORTMENT

Contains, beside a careful selection of the most popular Ingersolls arranged in the proportion in which they will sell, a unique window trim, together with complete instructions for installing it in the window. Asst

No. K120A Contains one dozen watches; four nickel and one gun metal finish Ingersoll dollar; two nickel and one gun metal finish Eclipse; two nickel and one gun metal finish Junior; one nickel finish Midget; weight per assortment 2¾ lbs. ..... $24 90

Packed, one assortment in box



### ASSORTMENT

A carefully selected assortment of Ingersoll watches, with an attractive display case of oxidized copper with double thick plate glass top and sides.

Asst

No. 18AW—Contains 18 watches; eight Yankee nickel finish; two Yankee, gun metal finish; two Eclipse, nickel finish; one Eclipse, gun metal finish; two Junior, nickel finish; one Junior, gun metal finish; one Midget, nickel finish; one Midget, gun metal finish; complete with display case; size of case 7½x8 ¾x3¼ inches; weight 1½ lbs. $36.64

Packed, one assortment in box

# WATCHES

## WRIST

Locust open face; 7-jewel, lever escapement, nickel damaskeened finish; pendant set; stem wind; white dial; hand sewed pig skin wrist strap.

| | Each |
|---|---|
| No. K527—Gun metal case; weight 2½ oz. | $ 9.00 |

Packed, one in box

Nos. K35W and K34W

Nos. K46W and K45W

Electric City; 16 size; guaranteed to give one year of satisfactory service; snap back case; white dial; stem wind and set; 30 hour time.

| | Each |
|---|---|
| No. K35W Nickel finish case; weight 4 oz. | $ 1.30 |
| No. K34W—Gun metal finish case; otherwise same as No K35W | 1 40 |

Packed, one in cardboard box.

Wyco; guaranteed for one year; this watch is made especially for us and is carefully tested and recommended as the best low priced watch manufactured; 16 size snap back case; second hand; white dial; stem wind and set; 30-hour time.

| | Each |
|---|---|
| No. K46W—Nickel finish case; engraved back; weight 3½ oz. | $ 1.60 |
| No. K45W—Gun metal finish, plain case; otherwise same as No K46W | 1.70 |

Packed, one in cardboard box.

Wyeth; 16 size; open face; fancy white dial with blue figures; snap back, thin model fancy case; a certain combination of metals are used in the making of the case, which is a splendid substitute for low karat gold, and will not peel or corrode; quick train movement; steel cut pinions; straight line escapement; stem wind and set; sunken second dial; interchangeable parts. Guaranteed by manufacturers.

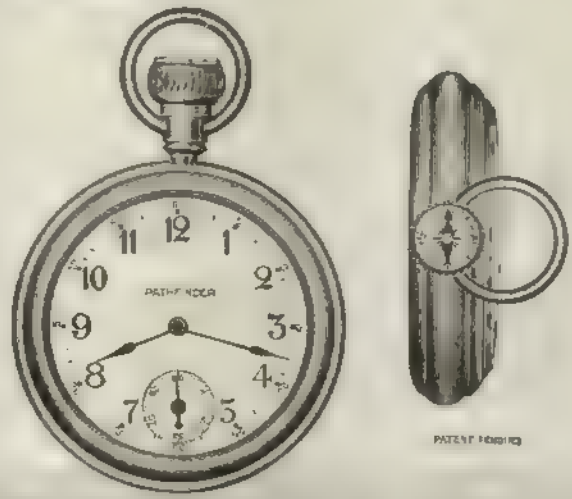
| | Each | Doz. |
|---|---|---|
| No. K63W—Weight 3 oz. | $1.60 | $18.00 |

NOTE—Dealer's name printed on dial free of charge, on orders for 100; for direct shipment from factory.

Peter Pan; fine real watch movement protected by crystal dust cap; bridge model; open face; white enamel dial, Louis XV hands; impossible to wind, too tight.

| | Each |
|---|---|
| No. K524—German silver case; weight 4 oz. | $ 2 50 |
| No. K525—Gun metal case, weight 4 oz. | 2 50 |

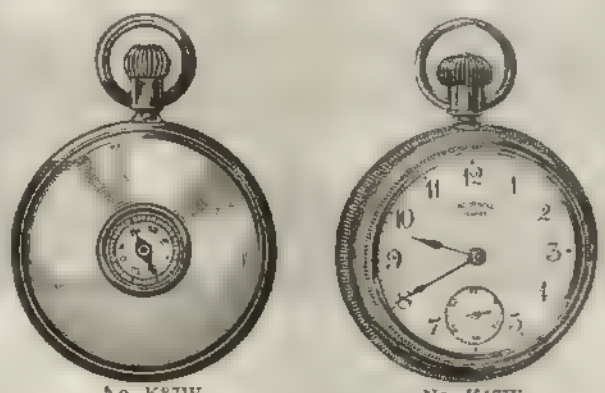
Packed, one in box



Pathfinder; open face; stem wind and set; compass in end of stem; Arabic numerals; nickel plated.

| | Each |
|---|---|
| No. K522—Weight 2½ oz. | $ 1.46 |

Packed, one in box.



No. K87W No. K47W

Scout's Compass, open face; white dial; stem wind and set; compass sunk in back case; nickel plated.

| | Each |
|---|---|
| No. K87W—Weight 3 oz. | $ 1.80 |
| Dozen lots | 1.74 |

Packed, one in carton, one dozen in box.

## INGERSOLL

Yankee; 16 size; open face; white dial; snap back, plain, heavily nickel plated case, stem wind and set; sunken second dial.

| | Each | Doz. |
|---|---|---|
| No. K47W—Weight 3½ oz. | $1.60 | $17 40 |

Packed, one in cardboard box; one dozen in carton.

# An Innovation—Interlocking K. D. Sectional Bookcases

**When Locked Stay Together, Making a Solid Bookcase. Can be Set Up in a Few Moments**
**No Nails, Screws or Hammer Required**

**INTERLOCKING K. D. COMBINATION**
**No. 302**

Finished in high polished mahogany finish and golden quartered oak, also in fumed, early English and weathered oak wax finishes. Consists of the following sections: 1 top, 1 9-inch book section, 1 11-inch book section, 1 13-inch book section, 1 base. Total height, 37⅝ inches. Weight boxed, about 95 pounds.

No. **302** Oak, complete ..... $48.95
No. **302M** Mahogany, complete ..... 48.90

Our Ideal, and no doubt yours also, for a practical K. D. Sectional Bookcase. Embraces the following features

Interlocking the different sections, so as to make a solid stack, so that it can be delivered in one piece to your customer without a possibility of coming apart.

So constructed that it is dust-proof, as well as simple to set up, so anyone can do so in a few moments

Rigid and firm after being set up, different from the loose rattle-box K. D. sections now on the market.

Doors that have equalizers to positively prevent binding, and doors that are removable without disturbing or taking apart the bookcase.

Beautiful and graceful in design, with lines pleasing to the eye, one that will be an ornament to any home.

This is something we have all been waiting for, and after five years continued experiment we have succeeded in accomplishing all of this in our new Interlocking K. D. Sectional Bookcases

These are packed in approved corrugated fibre cartons, saving from 25 to 40 pounds in weight on each stack

**PRICES AND SIZES OF SEPARATE SECTIONS**

| | Height Inside | Length Inside | Height Outside | Length Outside | Each |
|---|---|---|---|---|---|
| 9-inch book section | 9 in. | 32⅛ in. | 11¼ in. | 34 in. | $10.95 |
| 11-inch book section | 11 in. | 32⅛ in. | 13¼ in. | 34 in. | 11.20 |
| 13-inch book section | 13 in. | 32⅛ in. | 15¼ in. | 34 in. | 13.10 |
| | | | Height Outside | Length Outside | Each |
| Drawer section | | | 8⅝ in. | 34 in. | $10.95 |
| Desk section | | | 15¼ in. | 34 in. | 32.10 |
| Top | | | 3 in. | 34 in. | 6.55 |
| Base | | | 5 in. | 34 in. | 6.55 |

**LEADED GLASS DOORS**

| | Price per door | | Price per door |
|---|---|---|---|
| Single Diamond Leaded Glass | $4.80 | Vertical Leaded Glass | $4.20 |
| Double Diamond Leaded Glass | 5.85 | French Beveled Plate Glass | 5.35 |

If leaded or beveled plate glass doors are desired, the above prices must be added to the price of book sections with plain glass.

**INTERLOCKING K. D. STYLE COMBINATION No. 312**

Finished in high polished mahogany and golden quartered oak, also in fumed, early English and weathered oak, wax finishes. Combination consists of the following sections: 1 top, 2 9-inch book sections, 1 11-inch book section, 1 13-inch book section, 1 base. Total height, 59 inches. Weight, boxed, about 115 pounds.

No. **312** Oak. Complete ..... $59.80
No. **312M** Mahogany. Complete ..... 59.80

We make three different styles of Leaded Glass Doors, namely, Single Diamond, Double Diamond and Vertical, also French Bevel Plate Glass as shown in cuts. All of the above can be used in any of the different styles of bookcases that we make.

**INTERLOCKING K. D. STYLE COMBINATION No. 342**

Finished in high polished mahogany finish and golden quartered oak, also in fumed early English and weathered oak, wax finishes. Consists of the following sections: 1 top, 2 9-inch book sections, 1 desk section, 1 11-inch book section, 1 base. Total height, 59 inches. Weight boxed, about 130 pounds.

No. **342** Oak. Complete ..... $78.75
No. **342M** Mahogany. Complete ..... 78.75

## SCROLL SAWS

### CRICKET

Entire frame work made of iron, painted and black japanned, striped; iron tilting table; selected second growth ash arm; to meet the demand for a cheap yet good foot power saw.

| | Each |
|---|---|
| No. 10—Height 34 inches; 18-inch arms; weight 35 lbs. | $ 6 00 |

Packed, one in box.

### NEW ROGERS

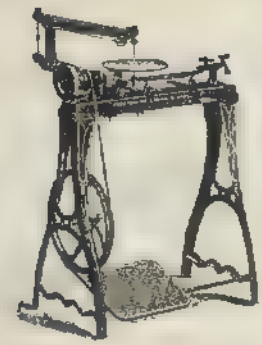
Entire framework made of iron, painted and black japanned, striped; steel arbors carefully gauged and fitted to bearings; arm and pitman best selected ash; bearings to the arms carefully sized; jointed stretcher rod which allows operator to throw upper arm out of the way when adjusting his work or saw; hinged jaw on clamps, attachment for drilling on right hand side of machine; provided with dust blower

| | Each |
|---|---|
| No. 1—Height 36 inches; 4½-inch iron balance wheel; complete with 12 saw blades, wrench, sheet of designs and three drill points; weight 42 lbs. | $ 8 00 |
| No. 2—With emery balance wheel and nickeled tilting table; otherwise same as No. 1 | 8 50 |

Packed, one in box.

## LATHE AND SAW ATTACHMENTS

### COMPANION

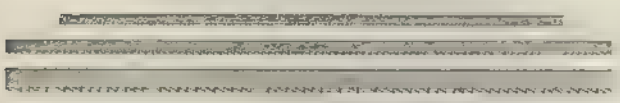


Entire framework made of iron, painted and black japanned; drive wheel has two large grooves of varying depths on its face to give change of speed; lathe head provided with 2-inch face plate, spur center, screw center for turning cups and drill chuck to hold round twist drills; 4½x⅞-inch emery wheel on outer side of pulley; tail stock has screw-feed center; provided with long and short tool rests, three turning tools, wrench, and drill points.

| | Each |
|---|---|
| No. 20—Height 40 inches; length of bed 24 inches; complete with scroll saw attachment; weight 78 lbs. | $17.00 |

Packed, one in box.

## SCROLL SAW BLADES



### BARNES

For scroll saws; tempered and polished spring steel.

| | | | |
|---|---|---|---|
| No. 7—Width, inches | ⅛ | 3/16 | ¼ |
| Length, inches | 7 | 7 | 7 |
| Weight per dozen, oz. | 2 | 2 | 2 |
| Dozen | $1.30 | 1.30 | 1.30 |

Packed, one-half dozen in package

## FELLOE WEBS

| | | | | | |
|---|---|---|---|---|---|
| Length, inches | 12 | 14 | 16 | 18 | 20 |
| Width, inches | ⅛ to ½ | ⅛ to ½ | ⅛ to ⅝ | ⅛ to ⅝ | ⅛ to ¾ |
| Weight per dozen, lbs. | ⅝ | ⅝ | ⅞ | 1 | 1⅛ |
| Dozen | $3.50 | 4.00 | 4 50 | 5 00 | 5.50 |

Packed, one dozen in package

## BRACKET SETS

Includes spring steel saw frame with patent clamps for holding saw blades, three sheets of designs, 12 saw blades, one awl and one sheet of impression paper.

| | Doz. Sets |
|---|---|
| No. 1—Rough nickeled frame, 5x12 inches; black japanned handle; weight per dozen sets 12 lbs. | $10 00 |
| No. 2—Polished and nickel plated frame, 5x12 inches; rosewood handle; weight per dozen sets 14 lbs. | 16 00 |

Packed, one set in box.

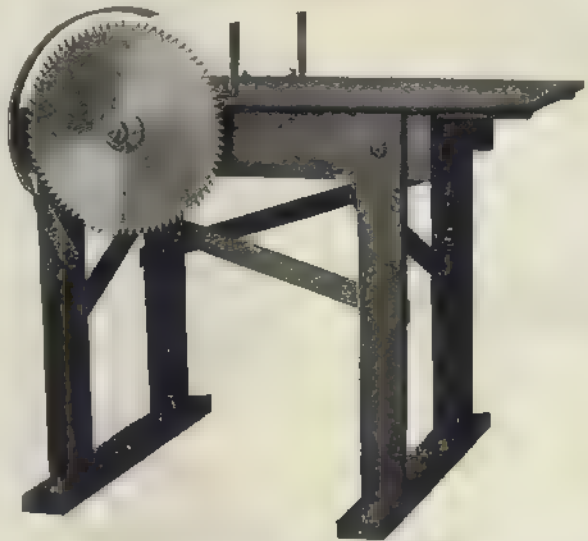
## BRACKET SAW BLADES

### BARNES IMPORTED

| | Gross |
|---|---|
| No. 5—Length 5 inches, assorted sizes 000 to 5; weight per gross 6 oz. | $ 2.70 |
| No. 7—Length 7 inches; assorted sizes 6, 8 and 10; weight per gross 8 oz. | 8 00 |

Packed, one-sixth gross in box.

## SAW FRAMES



### AMERICAN BOY, SLIDING TABLE

Made of thoroughly seasoned wood, securely bolted together, bearings well babbitted, made in two pieces, provided with liners which can be removed to take up wear; 1⅛-inch cold rolled steel mandrel; 3-inch belt pulley with 3½-inch face.

| | Each |
|---|---|
| No. 950—Without saw; height 42 inches; width 3 feet, length 3 feet; weight 125 lbs. | $19.00 |

## SAW BLADE PUNCHES

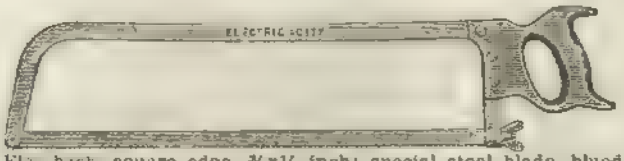
Malleable iron frame, natural temper finish; tempered steel punch and die; operated by screw and lever; especially useful for butcher saw blades.

| | Each |
|---|---|
| No. 2—Length 5⅝ inches; weight ½ lb. | $ 1.00 |

Packed, one in box.

## BUTCHERS' SAW BLADES

### ELECTRIC CITY



Flat back, square edge, ¾x¼ inch; special steel blade, blued, ⅝ inch wide; beechwood handle, with varnished edges, attached with three nickel plated screws

| No. 77—Length blade, inches | 16 | 18 | 20 | 22 | 24 | 26 |
|---|---|---|---|---|---|---|
| Depth under back, inches | 4⅛ | 4⅛ | 4⅝ | 4⅝ | 4⅝ | 4⅝ |
| Weight per dozen, lbs | 23 | 25 | 27 | 30 | 31 | 35 |
| Dozen | $12.50 | 13.50 | 14.50 | 15.50 | 16.50 | 17.00 |

Packed, one-third dozen in box.

### DISSTON

Flat back, square edge, 1x¼ inch; special steel blade, polished, ⅝ inch wide; beechwood handle, with varnished edges, attached with brass screws, three in 18 to 24-inch sizes, four in 24 and 26-inch sizes.

| No. 7—Length blade, inches | 18 | 20 | 22 | 24 | 26 |
|---|---|---|---|---|---|
| Depth under back, inches | 4⅛ | 4⅛ | 4⅝ | 4⅞ | 5 |
| Weight per dozen, lbs | 26 | 35 | 37 | 39 | 42 |
| Dozen | $19.00 | 20.00 | 21.00 | 22.00 | 23.00 |

Packed, one-third dozen in box.

### ATKINS

Flat back, round edge, ⅞x1 inch; special steel blade, ¾-inch wide, with pins to fit in slots in frame; beechwood handle, with varnished edges, attached with nickel plated screws.

| Nos. 16—Length blade, inches | 18 | 20 | 22 | 24 | 26 |
|---|---|---|---|---|---|
| Depth under back, inches | 4⅛ | 4⅛ | 4⅛ | 4¼ | 4¼ |
| Weight per dozen, lbs | 30 | 33 | 38 | 42 | 46 |
| Dozen | $18 00 | 19 00 | 20 50 | 21 50 | 22 50 |

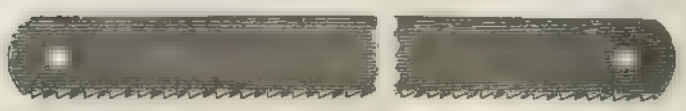
Packed, one-third dozen in box

### EXTRA BLADES

Bright finish, fitted with pins; ¾-inch wide

| Nos. 16B—Length, inches | 18 | 20 | 22 | 24 | 26 |
|---|---|---|---|---|---|
| Weight per dozen, lbs. | 1⅛ | 1¼ | 1½ | 1⅝ | 2 |
| Dozen | $5.00 | 5 20 | 5.50 | 5.70 | 6.00 |

## BUTCHERS' SAW BLADES



### ECONOMY

Steel, natural temper finish, filed, set and punched, ¾ inch wide.

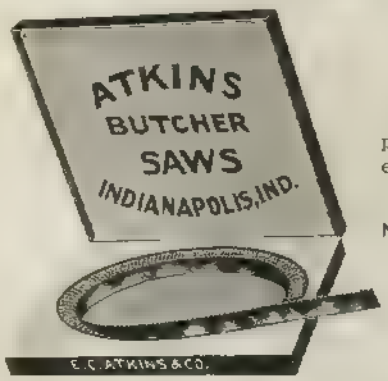
| No. 10—Length, inches | 24 | 26 |
|---|---|---|
| Weight per dozen, lbs. | 1¼ | 1⅜ |
| Dozen | $2.10 | 2.30 |

### REGULAR

Extra fine cast steel, polished, hand filed and set, not punched, ¾ inch wide.

| No. 20—Length, inches | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
|---|---|---|---|---|---|---|---|
| Weight per dozen, lbs. | ⅞ | 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1¾ |
| Dozen | $3 70 | 4.00 | 4.50 | 5.00 | 5.30 | 5.50 | 6.00 |

## BUTCHERS' SAWS




### ATKINS, IN COILS

Fine quality silver steel, highly polished, machine set and sharpened.

| | Per Coil |
|---|---|
| No. 30—Width ¾ inch, in 25-foot coils; weight per coil 2 lbs. | $ 3.50 |

Packed, one coil in box.

## COPING SAWS

Spring wire frame, nickel plated; steel wire handle; adapted to face blades up or down or to either side — Doz.

No. 100—Bent end blade, 6 inches long; one dozen blades furnished; depth under back 4 inches; entire length 10¼ inches; weight per dozen 4½ lbs. — $ 3.00

Packed, one-half dozen in box.

### EXTRA BLADES — Gross

No. 100B—Length 6 inches; for No. 100 coping saw; weight per gross ½ lb. — $ 1.30

Packed, one dozen in package; one gross in box.

Cold drawn steel frame, nickel plated and highly polished; hardwood handle, rosewood finish; nickel plated ferrule; by turning handle blades can be regulated to saw at any angle. — Doz.

No. FPM—Forged tool steel blade, 6 inches long; two blades furnished; depth under back 4 inches; entire length 12¼ inches; weight per dozen 8 lbs. — $12.00

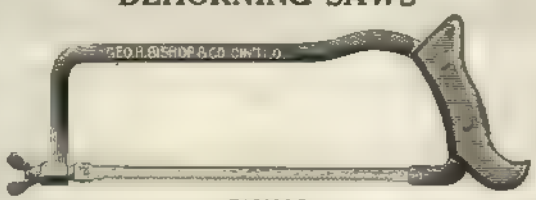
Packed, one-third dozen in box.

### EXTRA BLADES — Doz.

No. 8—Length 6 inches; for No. FPM coping saw; weight per gross ½ lb. — $ 0.70

Packed, one dozen in package; one gross in box.

## DEHORNING SAWS




### BISHOP

Polished steel blade; black japanned malleable iron frame; 4¾-inch beechwood handle; blade held in frame by lugs on each end of frame, tightened by wing thumb nut. — Doz.

No. 6—Blade 9½ inches long, ⅝-inch wide; depth from back to cutting edge of blade 2½ inches; weight per dozen 15 lbs. — $ 8 50

Packed, one-third dozen in box.

### EXTRA BLADES — Doz.

No. 695—Length 9½ inches; bright finish; punched; for No. 6 dehorning saw; weight per dozen ½ lb. — $ 1.80

View of "Finest" Feed showing slit parallel to pen

# John Holland FOUNTAIN PEN.

## THE GRIP-CAP PEN

Showing action of feeder clinging to pen in writing position

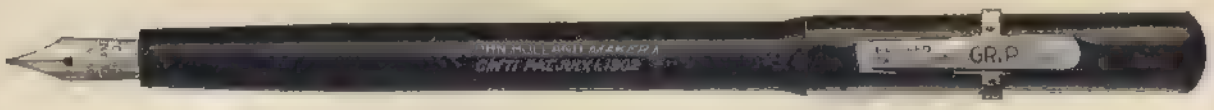
Each Pen guaranteed to give perfect satisfaction and at least two (likely twenty) years' wear. Any size or style of holder can be had in plain or chased black or mottled holder

Holland Grip Cap holds pen securely in pocket; adds 30 cents to any pen on this page

ILLUSTRATIONS ACTUAL SIZE—PRICES EACH

**No. 5499.** Fitted with John Holland No. 12 Tempered Gold Pen, Fine, Medium or Stub Point (Plain Black). Each $2.50

**No. 5500.** Fitted with John Holland No. 13 Tempered Gold Pen, Fine, Medium or Stub Point (Mottled). Each , $3 12



**No. 5501.** Fitted with John Holland No. 14 Tempered Gold Pen, Fine, Medium or Stub Point (Grip Cap). Each. $3 75

**No. 5502.** Fitted with John Holland No. 15 Tempered Gold Pen, Fine, Medium or Stub Point (Chased). Each. . $4 36

**No. 5503.** Fitted with John Holland No. 16 Tempered Gold Pen, Fine, Medium or Stub Point (Plain Black). Each..... $5.00

**No. 5504.** Mounted with 18k Gold-Filled Bands, Hand Chased John Holland No. 12 Tempered Gold Pen. Each $3.75
**No. 5505.** Mounted with 18k Gold-Filled Bands, Hand Chased John Holland No. 13 Tempered Gold Pen. Each 4.36
**No. 5506.** Mounted with 18k Gold-Filled Bands, Hand Chased John Holland No. 14 Tempered Gold Pen. Each 5.00

**No. 5507.** 18k Gold-Filled Ladies' English Engraved, with No. 13 John Holland Gold Pen. Each..... .....$10.00

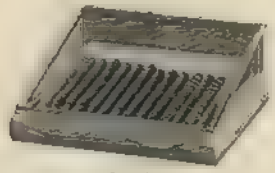
**No. 5508.** Sterling Silver Leaf Filigree with No. 12 John Holland Tempered Gold Pen Each . . $4 25
**No. 5509.** Sterling Silver Leaf Filigree with No. 14 John Holland Tempered Gold Pen. Each 8 75
**No. 5510.** 18k Gold-Filled Leaf Filigree with No. 12 John Holland Tempered Gold Pen Each 8 75
**No. 5511.** 18k Gold-Filled Leaf Filigree with No. 14 John Holland Tempered Gold Pen. Each 11 25

**No. 5512.** 18k Gold-Filled Heavy Hand Repoussee Covered Holder No 16 John Holland Gold Pen. Each.....$18.75

For Mounted and Silver, Gold-Filled or Solid Gold Fountain Holders, we make our patent Holland Grip for holding pen securely in pocket. In Sterling Silver at 90 cents extra, Gold-Filled, $1.80 extra; 14k Solid Gold, $3.60 extra—when attached to any of above holders.

# ASSORTMENT OF JOHN HOLLAND FOUNTAIN PENS

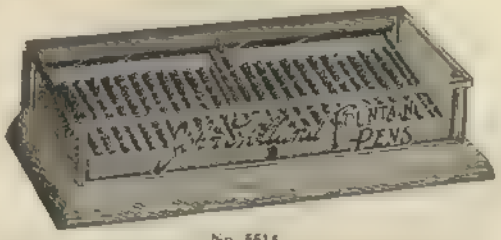
PRICES PER ASSORTMENT



No. 5515

Assorted dozen Fountain Pens, John Holland, with French plate glass case

| | | |
|---|---|---|
| 2 | No. 2 John Holland Fountain Pens | $ 5.00 |
| 3 | No. 3 John Holland Fountain Pens | 9.36 |
| 2 | No. 4 John Holland Fountain Pens | 7.50 |
| 1 | No. 5 John Holland Fountain Pen | 4.36 |
| 1 | No. 2 Mounted John Holland Fountain Pen | 3.75 |
| 1 | No. 4 Mounted John Holland Fountain Pen | 4.36 |
| 1 | No. 52-9 John Holland Fountain Pen | 6.25 |
| 1 | No. 62-24 John Holland Fountain Pen | 6.25 |
| 12 | | $46.83 |




No. 5514

Assorted two dozen Fountain Pens with French plate glass case

| | | |
|---|---|---|
| 4 | No. 2 John Holland Fountain Pens | $10.00 |
| 6 | No. 3 John Holland Fountain Pens | 18.72 |
| 6 | No. 4 John Holland Fountain Pens | 22.50 |
| 2 | No. 5 John Holland Fountain Pens | 8.72 |
| 1 | No. 7 John Holland Fountain Pen | 6.25 |
| 1 | No. 2 Mounted John Holland Fountain Pen | 3.75 |
| 1 | No. 4 Mounted John Holland Fountain Pen | 5.00 |
| 1 | No. 6 Mounted John Holland Fountain Pen | 6.25 |
| 1 | No. 62-24 John Holland Fountain Pen | 6.25 |
| 1 | No. 52-9 John Holland Fountain Pen | 6.25 |
| 24 | | $93.69 |

We also supply French plate glass cases, same style as illustration of two dozen case, but larger with assortments of 3 dozen at $149.40, and 4 dozen at $196.50, and 6 dozen at $2[illegible].0

# THE EUREKA SELF-FILLING FOUNTAIN PENS

Is instantly operated by sliding collar towards pen, exposing pressure bar which is pressed to compress ink container. Every detail of construction is up-to-date. Pens are [illegible] and the second grade are fully satisfactory. The gold pens are 14k and are pointed and hand tempered.

ILLUSTRATIONS ACTUAL SIZE - PRICES EACH

No. 5515. Eureka Self-Filling with No. 2 14k Gold Pen (Rubber Bags guaranteed 2 years). Each..... $2.10
No. 5516. Eureka Self-Filling with No. 4 14k Gold Pen (Rubber Bags guaranteed 2 years). Each..... 2.60
No. 5517. Eureka Self-Filling with No. 6 14k Gold Pen (Rubber Bags guaranteed 2 years). Each..... 3.12

# SAFETY FOUNTOGRAPH FOUNTAIN PEN

Non-leakable, however carried. Screw cap seals ink like cork in bottle.

No. 5518. "Safety," fitted with No. 3 Gold Pen. Closed 4 inches, open 5 inches. Each..... $2.10

# THE FOUNTOGRAPH FOUNTAIN PEN

These pens are special value, being a well made article, of good rubber, and fitted with a guaranteed Gold Pen of 14k. They will perform good writing and last a reasonable length of time. They represent the biggest value at the price that can be gotten up.

No. 5519. Fitted with No. 2 14k Gold Pen. Each..... $1.13
No. 5520. Fitted with No. 4 14k Gold Pen. Each..... 1.31
No. 5521. Fitted with No. 6 14k Gold Pen. Each..... 1.56

A display carton [illegible] with one dozen of these pens.

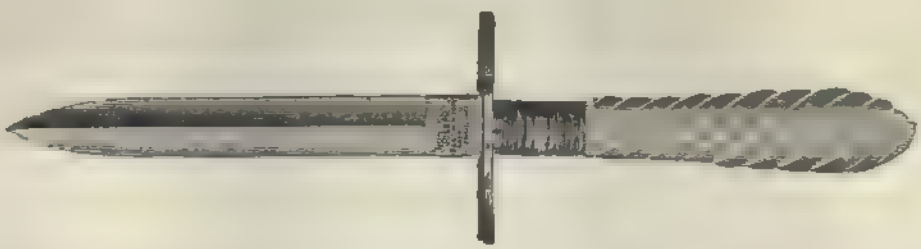
No. 5522. Mounted Fountograph, 18k Hand Chased Mountings, as shown in Cut No. 5518, 14k Gold Pen. Each.. $2.10

## BOWIE KNIVES

Stag handle; clip blade; with guard and sheath.

| No. S6020 -Inches | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|
| Weight per dozen, lbs. | 4½ | 4¾ | 5 | 6 | 7½ |
| Dozen | $11 50 | 12.50 | 13 00 | 16.00 | 18 00 |

## DAGGERS

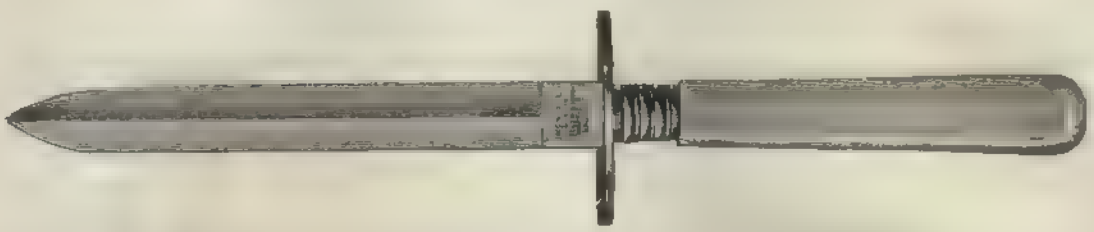


Fluted Pearl Handle; Crocussed blade, with scabbard and guard.

| No. S1168—Inches | 3½ | 4 | 5 |
|---|---|---|---|
| Weight per dozen, lbs | 2 | 2 | 2 |
| Dozen | $24 00 | 24.00 | 24.00 |

Plain pearl handle; Crocussed blade; with scabbard and guard.

| No. S1166—Inches | 4 | 4½ |
|---|---|---|
| Weight per dozen, lbs | 2 | 2 |
| Dozen | $24.00 | 24 00 |



No. S1182—White bone handle, 4½-inch Crocussed blade, with scabbard and guard, weight per dozen 2 lbs ... Doz. $12 50

No. S1185—Stag handle; 5-inch blade; otherwise same as No. S1182; weight per dozen 2 lbs. ... Doz. $16.00

# HANDY AND USEFUL STORE AND HOUSEHOLD TOOLS

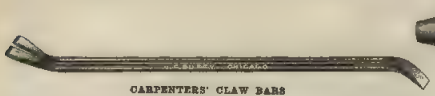
PRICES EACH

### COLD CHISELS
Made from American Octagon Steel

| | | Each | Per doz. |
|---|---|---|---|
| No 30 | ¾x7 inches long | $0.35 | $3.65 |
| No 30 | ⅝x7½ inches long | .50 | 5.20 |

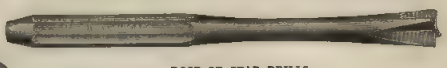
### BOX CHISELS

| | | Each | Per doz |
|---|---|---|---|
| No. 5 | ¾x12 inches, polished face | $1.20 | $11.80 |



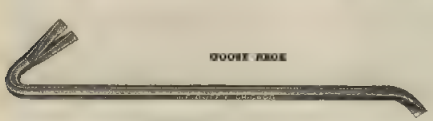
### CARPENTERS' CLAW BARS
American Steel

| | | Each | Per Doz |
|---|---|---|---|
| No. 102 | Size, ⅝x24 inches, Octagon Steel | $1.75 | $17.75 |
| No. 104 | Size, ¾x26 inches, Octagon Steel | 2.75 | 27.15 |
| No. 106 | Size, ⅞x26 inches, Octagon Steel | 4.35 | 43.50 |



### ROSE OR STAR DRILLS
Fine Tool Steel

| | | Each | Per doz |
|---|---|---|---|
| No 35 | 3/16x12 inches | $1.15 | $11.35 |
| No 35 | 5/16x12 inches | 1.45 | 14.30 |
| No 35 | ¾x12 inches | 2.70 | 17.00 |



### GOOSE NECK
### CARPENTERS' CLAW BARS
Combined Wrecking Bar and Nail Puller

| | | Each | Per doz. |
|---|---|---|---|
| No 1030 | Size, ⅝x24 inches, Octagon Steel | $1.75 | $17.75 |
| No 1040 | Size, ¾x30 inches, Octagon Steel | 2.75 | 27.15 |
| No 1050 | Size, ⅞x30 inches, Octagon Steel | 4.35 | 43.50 |

### DUFFY'S HOUSEKEEPERS' STEEL TACK HAMMERS
Polished and Nickel Plated

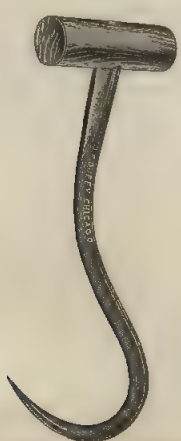
| | | Each | Per doz |
|---|---|---|---|
| No. 12. | | $0.95 | $9.45 |

### HIP POCKET CRATE OPENERS
Standard
Polished and Nickel Plated

| | | Each | Per doz. |
|---|---|---|---|
| No. 2 | Weight, 12 ounces, length, 9 in. over all | $1.90 | $18.90 |

### BOX SCRAPER

| | | Each | Per doz |
|---|---|---|---|
| No. 15 | Solid steel, finely tempered. | $1.50 | $15.90 |



### OCTAGON STEEL BOX HOOKS
Best Tool Steel Half-Polished—Hickory Handle

| | | Each | Per doz. |
|---|---|---|---|
| No. 611 | ½-inch, length (over all) 12 inches | $1.65 | $16.90 |

Patented August 10, 1909.

### DUFFY'S IMPROVED BARREL HATCHET
Polished and Nickel Plated

This Hatchet Head is forged from one solid piece of Tool Steel. The patent steel rib in the handle prevents the head from flying off and the handle from breaking. The three slots in the head make it possible to draw a nail from any conceivable place.

| | Each | Per doz |
|---|---|---|
| No. 7.. | $6.60 | $66.70 |

### BRICKLAYERS' HAMMERS
Solid Tool Steel—Hickory Handle

| | | Each | Per doz. |
|---|---|---|---|
| No 55 | | $3.50 | $33.25 |

# COMBINATION POCKET KNIVES

EMPIRE

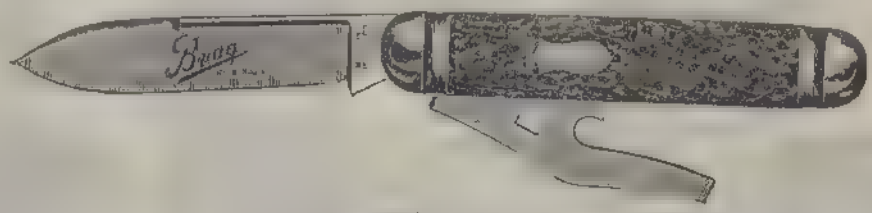
Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. **Fully Guaranteed.**

Length 3⅝ inches; German Silver Bolster; One Large Spear Blade; One Large Screw Driver with Prest-o-lite Wrench; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 3¼ lbs.

| ★DIAMOND EDGE | Per Dozen | ★EMPIRE | Per Dozen |
|---|---|---|---|
| No. 2S400—Cocobolo Handle | $9 90 | No. 2E400—Cocobolo Handle | $9 90 |
| No. 2S400ST—Patent Stag Handle | 11 00 | No. 2E400ST—Patent Stag Handle | 11 00 |

Half Dozen in a Box

Bridge TRADE MARK




Bridge TRADE MARK

★BRIDGE CUTLERY CO.

American Made; High Grade English Steel Blades; Carefully Forged, Ground and Tempered, Free from Flaws and Imperfections; Length 3⅝ Inches, German Silver Bolsters, One Large Spear Blade, One Combination Screw Driver, Bottle Opener and Prest-o-lite Wrench Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield; Weight per Dozen 3 lbs.

| | Per Dozen |
|---|---|
| No. 2B389—Cocobolo Handle | $11 00 |
| No. 2B389ST—Patent Stag Handle | 13.10 |

Half Dozen in a Box

★EMPIRE

Electrician's Knife; Lock Back; Length 3⅝ inches; German Silver Flush Bolster; One Screw Driver Blade with Cutting Edge; Glazed and Etched; Brass Lining; German Silver Shield; Weight per Dozen 22 ozs.

| | Per Dozen |
|---|---|
| No. 1E50—Cocobolo Handle | $3 [illegible] |

Half Dozen in a Box

★EMPIRE

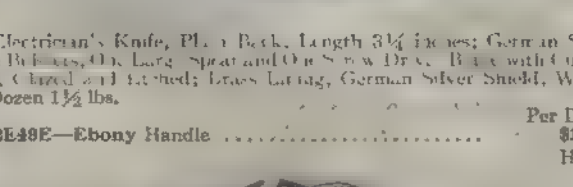
Electrician's Knife; Plain Back; Length 3¼ inches; German Silver Flush Bolsters, One Large Spear and One Screw Driver Blade with Cutting Edge, Glazed and Etched; Brass Lining, German Silver Shield; Weight per Dozen 1½ lbs.

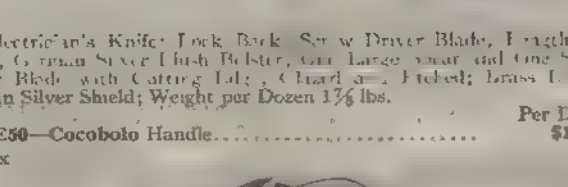
| | Per Dozen |
|---|---|
| No. 2E48E—Ebony Handle | $15 00 |

Electrician's Knife; Lock Back, Screw Driver Blade, Length 3⅝ inches, German Silver Flush Bolster, One Large Spear and One Screw Driver Blade with Cutting Edge, Glazed and Etched; Brass Lining, German Silver Shield; Weight per Dozen 1⅞ lbs.

| | Per Dozen |
|---|---|
| No. 2E50—Cocobolo Handle | $13 90 |

Half Dozen in a Box





★J. KOESTER'S SONS, GERMANY

Congress Pattern; Length 4¼ inches, Polished Steel Rat Tail Bolsters; One Large Spear, One Large Congress, One Small Pen and One Nail File Blade, Full Polished, One Cigar Box Opener and Screw Driver, One Leather Punch; Brass Lining, German Silver Shield, Weight per Dozen 3 lbs.

| | Per Dozen |
|---|---|
| No. C5006ST—Patent Stag Handle | $28 00 |

★J. KOESTER'S SONS, GERMANY

Congress Pattern; Length 4¾ inches; Polished Steel Rat Tail Bolsters; One Large Spear and One Large Congress Blade; Full Polished, One Cigar Box Opener and Screw Driver One Leather Punch, Brass Lining, German Silver Shield; Weight per Dozen 2¾ lbs

| | Per Dozen |
|---|---|
| No. C8001ST—Patent Stag Handle | $22 00 |

Half Dozen in a Box

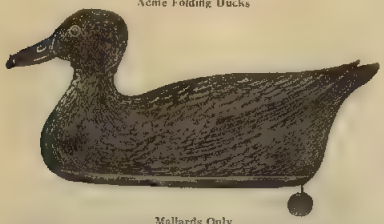
DIAMOND EDGE IS A QUALITY PLEDGE

# Decoy Ducks

### Wood Decoy Ducks

**11094** Extra quality glass eyes, mallards only, assorted, two-thirds male and one-third female, weight per dozen 27 lbs.
Per dozen, **$16 00**
One dozen in a crate.

### Acme Folding Ducks



Mallards Only.

**11095** Wood Base, Waterproof Cloth Form, Nicely Painted, with Anchor, Folding Wire Frame; one dozen in a wood box with hinged lid and handle, size 16x7x14 inch, weight 14 lbs.
Per dozen, **$17 00**

These decoys fold very compactly and are light, lifelike and durable. They do not depend upon air pressure to preserve their shape.

### Hollow Collapsible Canvas Decoys

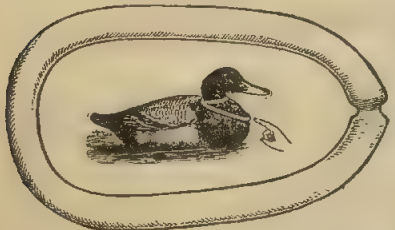
**11096** Mallards, Canvas Backs, Red Heads, Blue Bills and Teals. Per dozen, with cords and anchors **$16 00**

The lightest decoy made, weight only 4 ounces. Two can be carried in the hunting coat pocket. Packed one dozen in a neat case.

**11097** Extra anchors and cords, Per dozen **$1 40**

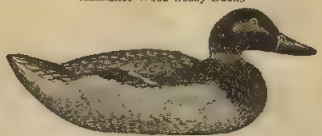
**11098** Folding or Collapsible Geese, packed in boxes of one dozen, sold in half dozen lots at dozen prices not less than half dozen sold
Per dozen, **$32 00**

### Decoy Weights



**1104** Galvanized iron, 4½x2½ inches, weight per dozen 6 lbs.
Per dozen, **$2 00**

### Kankakee Wood Decoy Ducks



Mallard, Canvas Back, Red Head, Blue Bill, Pin Tail and Blue Winged Teal.

**11099** Glass Eyes, best grade assorted Per dozen **$13 20**
**11100** Tack Eyes, second grade, assorted, Per dozen **11 40**
**11101** Painted Eyes, third grade, assorted Per dozen **9 60**

These decoys are made of the best seasoned white cedar. Flat bottomed, will float evenly on the water at all times, are well balanced and neatly painted. Assorted one-third female and two-thirds male. Nos. 11099 and 11100 are smoothly finished and painted in natural colors. No. 11101 is painted in natural color but not as nicely finished as Nos. 11099 and 11100.

One dozen in a crate. Average weight 33 lbs. per dozen.

### The Chesapeake Folding Decoys
Entirely New

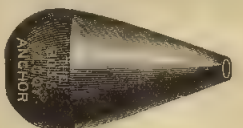
By far the best and most practical folding decoys yet made. Made in Mallards, Blue Bills, Canvas Backs, Pin Tails and assorted, two-thirds drakes, one-third hens.

**11102** Made entirely of wood and brass. Combine all the advantages of the solid wooden decoys and the collapsible kinds without being frail. These decoys cannot upset, and save one-third time in setting out and picking up. Three decoys fold together and are fastened to one anchor. Very lifelike. Put up in a serviceable carry box. Carry box containing one dozen decoys, complete with anchors and cords, measures 17 inches long by 9½ inches high, by 6¼ wide and weighs 12 lbs.
Price per dozen decoys, complete **$12 00**

### Solid Cedar Decoys

All our decoys are made of thoroughly kiln dried white cedar, of select pieces, every one perfect. They are the exact size and shape, and painted to closely imitate the duck they are intended to represent. Made in Mallards, Canvas Backs, Red Heads, Blue Bills, Pin Tails and Teals. Assorted, two-thirds male, one-third female.

**11103** Solid Cedar Decoys, glass eyes, per dozen . . . . **$10 00**
The above prices on decoys are for not less than one dozen of a kind.




**11105** "Boss" Anchors, with cores, per dozen . . . . . **$2 00**

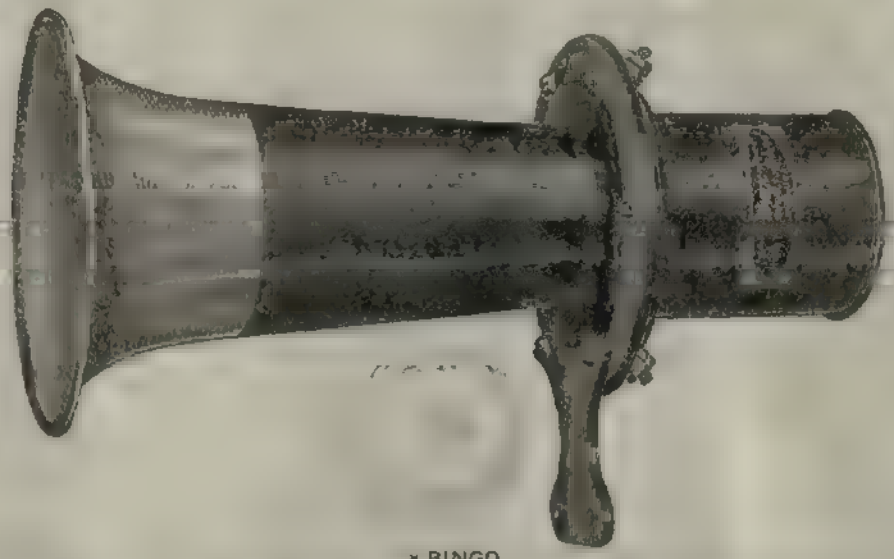
**Through All These Pages, Note the Thousands of Illustrations and Remember We Carry a Stock of Everything.**

**"THE HOUSE OF QUALITY"**

# *BINGO ELECTRIC VIBRATOR HORNS

## FOR AUTOMOBILES

**Operates Off Four or Six Dry Cells or Storage Battery**



GOOD LOOKING

[illegible]

LOW PRICED

THOROUGHLY

RELIABLE

THE BEST ELECTRIC

[illegible]

[illegible]

GOOD TONE

EASILY ADJUSTED

***BINGO**

This is a High Grade Electric Vibrator Horn With a Pleasing Purr and Distinct Tone. It is Intended for those who want a Good Electric Horn at a Moderate Price. Made Throughout of the Very Best Materials; Has Strong and Positive Vibrator, Made to Last Indefinitely. Every Horn is Carefully Adjusted and Tested before Leaving the Factory.

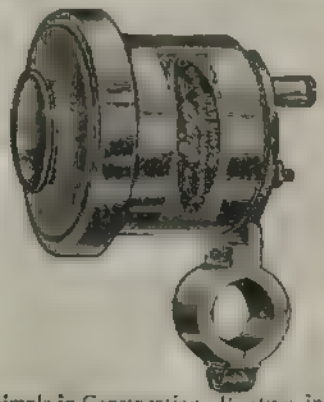
Length Over All 10 inches, Diameter of Bell 5 inches, Complete with Push Button, 10 feet of Cord and Mounting Bolts

| | Each |
|---|---|
| No. 1BN—Black and Nickel | $6 50 |
| No. 1BB—Black and Brass | 6 50 |
| No. 1BE—All Black | 6 50 |

One in a Carton; Weight 6 lbs.

## FOR MOTORCYCLES AND BICYCLES

**Can Be Operated Off Two Dry Cells or Four No. 10B Two Cell Flash Light Batteries as Described Below**



***BINGO**

This is a Specially Designed Horn for Motorcycle Use. Is Exceedingly Neat in Appearance, Simple in Construction, Positive in Action and Thoroughly Waterproof. Consumes Only a Small Amount of Current, Yet Has a Loud Commanding Tone. Complete with Push Button for Attaching to Handle Bar and Four Feet of Cord Connecting Parts to Install.

| WITH LONG PROJECTOR | Each |
|---|---|
| No. 3N—Full Nickel Plated, Without Case or Batteries; Diameter of Bell 3¾ inches; Length Over All 6 inches | $7 50 |

One in a Carton; Weight 3 lbs.

| WITH SHORT PROJECTOR | Each |
|---|---|
| No. 2N—Full Nickel Plated, Without Case or Batteries; Length Over All 3 inches | $7 00 |

One in a Carton; Weight 2½ lbs.

## BATTERY CARRYING CASES

Made of High Grade Enameled Steel Complete with Two Clamps for Attaching to Machine; Holds Four No. 10B Two Cell Flash Light Batteries which Supply Enough Energy to Operate Horn Under Ordinary Conditions for Week Days Motorcycle. Can also be Operated with Two No. 20 Columbia or Two No. 711 Ever Ready Batteries.

| Prices Do Not Include Batteries | Each |
|---|---|
| No. 1C—Black Enameled | $2 00 |
| No. 2C—Dull Red Enameled | 2 00 |
| No. 3C—Ebony Enameled | 2 00 |

One in a Carton; Weight 1½ lbs.

No. 10B

## BATTERIES

***NORLEIGH DIAMOND**

**Each Case Requires Four Batteries**

| | Each | Per Dozen |
|---|---|---|
| No. 10B—Two Cell; Weight per Dozen 4¼ lbs | $5 30 | $3 00 |

# ELECTRIC FANS

## KARKO

**For Alternating and Direct Currents**

**Switch and Controller in Base Giving Three Speeds**

Cut Shows Use as a Desk Fan

Cut Shows Use as a Bracket Fan

The Brightest Smallest Fan on the Market and as Efficient as Many Larger Fans, Electrically and Mechanically Perfect, Perfectly Balanced, Perfectly Noiseless, Ideal Device for Home, Office, Bank, Soda Counter, Telephone Booth. Adjustable to any Position on Desk or Wall, Unique Joint Permits Every Conceivable Adjustment, Including Swiveling. Powerful and Quiet Motor.

Best Possible Construction. Ball Bearings. Commutator Carefully Turned. Wire Used Orders of Any Size. Best Black Enamel Finish; Blades, Guards and all Bright Parts Heavily Nickeled on Brass, so Cannot Tarnish.

**KARKO FANS Complete with Double Covered Silk Cord and Benjamin Plug.**

No. 80—Three Speed Swivel Desk or Bracket Fan; Diameter 8 Inches, Four Blades, 110 Volts, Complete with Cord and Plug Weight Each 5 lbs. . . . . **$16 00**

One in a Box; Shipping Weight 8½ lbs.

# CONNECTING CORDS

No. P Made of Extra Quality Cotton Braid with a Seam. Rubber Insulation over the Wire. Length 6 Feet, Standard Thickness with Plug for Screwing into Socket; Insulated; Weight Each about 1 lb. . . . . Each **$0 85**

Loose.

# INCANDESCENT LAMPS

## *NORLEIGH DIAMOND

**With Edison Base**

These are the Highest Type of Metal Filament Lamps Manufactured, Made by the Latest Improved Machinery and by the Most Improved Method, they have a Solarium after the Exacting Testing Laboratories, 50th Street and East End Avenue, New York, whose Tests are accepted by the United States Government and are Approved by them.

CLEAR GLASS

| | Watts | Voltage | Standard Package Quantity | Weight lbs. | Each |
|---|---|---|---|---|---|
| No. ND 10 | 10 | 110 | 100 | 50 | $0 70 |
| No. ND 15 | 15 | 110 | 100 | 50 | 70 |
| No. ND 20 | 20 | 110 | 100 | 50 | 70 |
| No. ND 25 | 25 | 110 | 100 | 50 | 70 |
| No. ND 40 | 40 | 110 | 100 | 47 | .70 |
| No. ND 60 | 60 | 110 | 50 | 35 | 95 |
| No. ND100 | 100 | 110 | 24 | 30 | 1 65 |
| No. ND150 | 150 | 110 | 24 | 30 | 2.65 |
| No. ND250 | 250 | 110 | 12 | 25 | 3.85 |

| | Watts | Voltage | Standard Package Quantity | Weight, lbs. | Each |
|---|---|---|---|---|---|
| +No. NDX 225 | 25 | 220 | 100 | 50 | $0 80 |
| +No. NDX 240 | 40 | 220 | 100 | 47 | .90 |
| +No. NDX 260 | 60 | 220 | 50 | 35 | 1 45 |
| +No. NDX2100 | 100 | 220 | 24 | 30 | 1 90 |
| +No. NDX2150 | 150 | 220 | 24 | 30 | 2 75 |
| +No. NDX2250 | 250 | 220 | 12 | 25 | 5.00 |

Note—These Lamps Consume Only 1¼ Watts per Candle Power

One Dozen in a Box

**Items Marked + Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory F. O. B. Danvers, Mass.**

*"DIAMOND EDGE IS A QUALITY PLEDGE"*

# KLAXON REGULAR HORNS

See Opposite Page for Special Klaxon Horns

The Klaxon is the Most Startling and Effective Signal Ever Devised for Automobiles or Motor Boats. It is Far More Powerful and Can be Heard Farther Than Any Other Warning Signal. By Reason of its Peculiar Attention Compelling Tone, it Dominates All Other Sounds. The Note of the Klaxon is the Warning Note. It Does Not Express Fear or Anger as Expresses and is Instinctively Understood as Meaning **Danger.** It Cuts Through Other Sounds. Is Easily Located and Heeded without Confusion and without Hesitation. On Still Air it May Be Heard a Mile, Under Ordinary Conditions Over Seven Blocks. Many Makes of Motor Cars Have Adopted the Klaxon as Their Standard Equipment.

The Klaxon is a Marvel of Simplicity. Its Sound is Produced by a Tough Vanadium Steel Diaphragm, Set in Rapid Vibration by Means of a Powerful Yet Delicate Motor Operated by Electricity. Finely Constructed Electric Motor. Motor is a Railway Motor in Miniature with a Laminated Seven-Cut Armature and Commutator Similar to That Used in Klaxon Horns are Dust and Waterproof, Can be Cleaned with a Hose without Danger or Damage. Each Horn is Supplied with Push Button to Match Finish of the Instrument Itself and 10 Feet of Double Covered Insulated Wire.

## KLAXON—TYPE L

This is the original Klaxon with the Long Projector and is the only Horn made that is thoroughly in keeping with the Highest Class of Motor Cars Made. Has a Powerful Tone. Its Diaphragm is Vibrated by the Klaxon Motor. Has a Heavy Motor Shaft which runs on Ball Bearings. The Motor is wound for Six Volts and Consumes Five Amperes at that Voltage. Four to Six Dry Cells are quite sufficient to operate same satisfactorily. Has Long Projector and Oval Belt. Produces the Genuine and Only Klaxon Cut Warning Note totally unlike the noise of all other Horns.

| Complete with Push Button and Wire | Each |
|---|---|
| No. LBB—Black Enameled and Brass | $35.00 |
| No. LBN—Black Enameled and Nickel | 35.00 |

One in a Case. Weight 20 lbs.

## KLAXONETTE—TYPE L

The Klaxonette operated on the same principle as the regular Klaxon. Has the true Klaxon Warning Note but is higher in Pitch and lower in Volume. Has Rear End Motor Shaft which runs on Ball Bearings. The Motor is wound for Six Volts and Consumes Five Amperes at that Voltage. Four to Six Dry Cells are quite sufficient to operate same satisfactorily. Has Long Projector and Oval Belt.

| Complete with Push Button and Wire | Each |
|---|---|
| No. KLBB—Black Enameled and Brass | $20.00 |
| No. KLBN—Black Enameled and Nickel | 20.00 |

One in a Case. Weight 12 lbs.

## KLAXET—TYPE L

The Klaxet is a little smaller than the Klaxonette, but operates on the same principle, a Steel Diaphragm Vibrated by an Electric Motor. Produces the true Klaxon Warning Note. Very Impressive and to the Point. It is thoroughly well made and Reliable and is sold under the Regular Klaxon Guarantee. Requires from Four to Six Dry Cells to Operate.

| Complete with Push Button and Wire | Each |
|---|---|
| No. KBB Black Enameled and Brass | $12.00 |
| No. KBN Black Enameled and Nickel | 12.00 |

One in a Case; Weight 5 lbs.

## KLAXON HAND OPERATED

The Hand Klaxon operates on the Klaxon Principle of a Steel Diaphragm set in Violent Vibration by a Toothed Wheel. This Wheel is Rotated by a train of Gears that attain High Speed under Pressure on the Push Rod. The Hand Klaxon has the true Klaxon Warning Note and is sold under the Regular Klaxon Guarantee. The Finish and Workmanship on this Horn is Identical with that on the Electric Klaxons.

| FOR AUTOMOBILES | Each |
|---|---|
| No. HBB—Black Enameled and Brass | $10.00 |
| No. HBN Black Enameled and Nickel | 10.00 |
| No. HBE All Black Enameled | 10.00 |

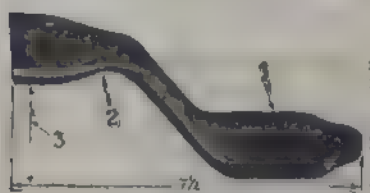
One in a Case; Weight 8 lbs.

| FOR MOTOR CYCLES | Each |
|---|---|
| No. HMBN—Black Enameled and Nickel; with Handle Bar Clamp | $10.00 |

One in a Case; Weight 5 lbs.

## ✠SPECIAL ATTACHING BRACKETS

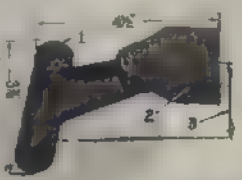
### FORE DOOR BRACKET




For Fore Door Bodies. By reversing it will give an Offset forward or Backward of 2⅛ in.

1. Sent Undrilled. To be Drilled to Suit Body.
2. Three Holes Drilled and Tapped to take Klaxon.
3. 2⅛ in. Offset from Dash.

### PACKARD RUNABOUT




Designed for Packard Runabout. Can be used on similar Bodies of other makes.

1. Drilled to Fit Dash when ordered for Packard Car. Furnished Undrilled otherwise.
2. Three Holes Drilled and Tapped to take Klaxon.
3. 2¼ inches Offset from Dash.

### PACKARD TOURING

Designed for Packard Touring Car. Can be used on similar Bodies of other makes.

1. Drilled to Fit Dash when ordered for Packard Car. Furnished Undrilled otherwise.
2. Three Holes Drilled and Tapped to take Klaxon.
3. 2¼ inches Offset from Dash.

### CHASSIS BRACKET

For any Car where the shape of Body will not permit of attaching to Dash.

1. Sent Undrilled. To be Drilled to suit Chassis.
2. Three Holes Drilled and Tapped to take Klaxon.
3. 2¼ inches Offset from side of Chassis.

| | Each |
|---|---|
| ✠Special Attaching Brackets for Klaxon Horns, any Finish | $1.00 |

Items Marked ✠ Not Carried in Stock, Can Only be Furnished by Shipping Direct From Factory

# AUTOMOBILE HORNS

## CHIME HORNS

### HORNS ONLY

Attached to Exhaust Pipe and Operated by Pedal from Seat; Four Harmonic . . Combined in One Loud Warning Blast that Clears the Way; Cannot Become Clogged, Works Under Low Pressure and can be Attached to all Cars; also Adapted to Motor Boats Launches, in fact can be Attached to any Exhaust Pipe; Outside Made of Seamless Brass Tubing; Inside Perfectly Bored; Aluminum Fitted and Tested for a Harmonious Tone.

| | Each |
|---|---|
| No. 1CH—Large Horn; Length 13½ inches; Diameter 2½ inches; Weight, 5 lbs. | $6.00 |
| No. 2CH—Small Horn; Length 11½ inches; Diameter 2 inches; Weight 2 lbs. . . . | 4.00 |

Loose

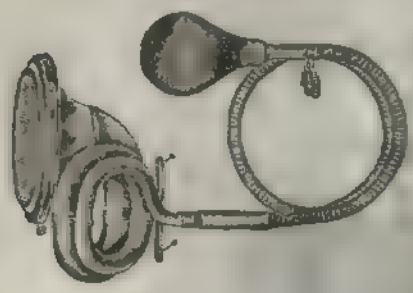
### COMPLETE SETS—READY TO ATTACH TO CAR

Set Consists of Horn, Foot Pedal, Valve, Spring, Five Feet of Chain and Two Pulleys

| LARGE HORN SETS | Per Set |
|---|---|
| No. L1¼—Fits 1¼-in. Steel Tubing; Weight, 7½ lbs. . . . . | $8.80 |
| No. L1 . . Fits . . in. Steel Tubing, Weight 7 . lbs. . | 8 80 |
| No. L1¾ Fits 1¾ in. Steel Tubing, Weight, 7 . lbs. . | 8.80 |
| No. L2 Fits 2 in. Steel Tubing, Weight, 7 . . | 8.80 |
| No. L2¼ Fits 2¼ in. Steel Tubing; Weight, 7 . lbs. . | 8.80 |
| No. L2 . Fits 2 . in. Steel Tubing Weight, 7 . lbs. . . . | 8.80 |
| No. L11¼ Fits 1¼ in. Iron Pipe; Weight, 7 . lbs. . . . | 8.80 |
| No. L11½ Fits 1½ in. Iron Pipe, Weight, 7 . lbs. . . . | 8.80 |
| No. L12 —Fits 2 -in. Iron Pipe, Weight, 7 . lbs. . . . . | 8 80 |

| SMALL HORN SETS | Per Set |
|---|---|
| No. S1¼—Fits 1¼-in. Steel Tubing; Weight, 4½ lbs. . . . . | $7.15 |
| No. S1 . Fits 1 . in. Steel Tubing, Weight, 4 . lbs. . . . . | 7.15 |
| No. S1¾ —Fits 1¾-in. Steel Tubing; Weight, 4½ lbs. . . . | 7.15 |
| No. S2 —Fits 2 -in. Steel Tubing; Weight, 4½ lbs. . . . . | 7.15 |
| No. S2¼—Fits 2¼-in. Steel Tubing; Weight, 4½ lbs. . . . . | 7.15 |
| No. S2½—Fits 2½-in. Steel Tubing; Weight, 4½ lbs. . . . . | 7.15 |
| No. S11¼—Fits 1¼-in. Iron Pipe; Weight, 4½ lbs. . . . . | 7.15 |
| No. S11½—Fits 1½-in. Iron Pipe; Weight, 4½ lbs. . . . . | 7.15 |
| No. S12 —Fits 2 -in. Iron Pipe, Weight, 4½ lbs. . . . | 7.15 |

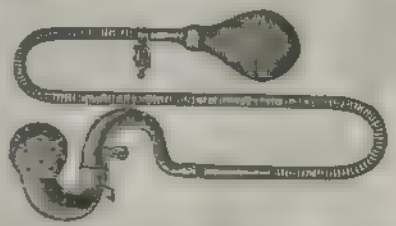
## BULB HORNS



Polished and Lacquered Spun Brass, Diameter Bell, Fitted with Detachable Bell, Screws for Nickel Plated Wire Gauze, Flexible Tube.

| | Each |
|---|---|
| No. 15—Oval Bell 7x5 inches; 40 inch Flexible Tube, Weight 3¼ lbs. | $11 00 |
| No. 60—Oval Bell Screw Connection with Detachable Tube, Weight 2¾ lbs. | 12 10 |

One in a Box



### SERPENTINE

The Reed is Placed in Connection Inside the Horn Proper as is the Case with Other Bulb Horns; the Reed is Entirely Protected, the Superior Sound Distributer Produces a Very Loud and Clear Tone.

| | Each |
|---|---|
| No. [redacted] Polished and Lacquered Spun Brass Horn with Guard; 40 inch Flexible Tube; Detachable in Center; Fitted with Bracket and Best Quality Rubber Bulb; Weight 2 lbs. | $6 60 |

One in a Box

## HORN REEDS

Brass Frames; Special Copper Alloy Vibrator Reeds Securely Soldered to Frames.

| Nos. | 10077 | 10078 | 10304 | 10366 | 10489 |
|---|---|---|---|---|---|
| Length, Inches | . | . | 2 | 2¼ | . |
| Fits Horns, Nos. | 3BH,4BH,30 | 4 | 6 | 15-60 | 34-46-65 |
| Weight Dozen, Ozs. | 3 | 6 | 9 | 12 | 15 |
| Per Dozen . . . . | $2.20 | 3.65 | 3.65 | 3.85 | 4.40 |

Tapered, Fits any Automobile Horn

| | Per Dozen |
|---|---|
| No. 10075—Length 2⅝ inches; Weight per Dozen 18 ozs. | $4 40 |

| | Per Dozen |
|---|---|
| No. 10304—With Threaded Ferrule to Screw on any Standard Threaded Horn End; Length 2¼ inches, Weight per Dozen 1¼ lbs . . . . . | $5 00 |

Loose

## HORN BULBS

Made of Best Quality Pure Rubber

Polished Brass Connecting Tubes.

| Nos. | 1 | 2 | 6 | 10 | 15 |
|---|---|---|---|---|---|
| Diameter of Bulbs . . . . . | 2¼ | 2¾ | 3⅜ | 3¾ | 4 |
| Weight Dozen Lbs. | . | 2½ | . | . | . |
| Per Dozen . . | $7 00 | 8 00 | 10 00 | 12 00 | 14 00 |

Loose

## FLEXIBLE HORN TUBES

| BRASS | Each |
|---|---|
| No. B40½—40x½ inch; Weight 12 ozs. . | $1 35 |
| No. B50⅝—50x⅝ inch; Weight 14 ozs. . | 1 60 |
| No. B60⅝—60x⅝ inch; Weight 16 ozs. . . | 1 80 |
| **NICKEL PLATED** | |
| No. NP40½ 40x½ in. Weight 12 ozs. | 2 00 |
| No. NP50⅝ 50x⅝ in. Weight 14 ozs. | 2 20 |
| No. NP60⅝ 60x⅝ in. Weight 16 ozs. | 2 50 |

Loose

## HORN PUSH BUTTONS

Used on Electric Horns of all kinds; Complete with Plate to Clamp around Steering Wheel, Full Nickel Plated, Diameter 1⅜ Inches.

| | Per Dozen |
|---|---|
| No. 25—Weight per Dozen 2½ lbs . . | $7 00 |

Twelfth Dozen in a Box

# LANTERNS

No. 6 PERFECT

Fig. 1520

No. 0 PERFECT—Dash

Fig. 1521

No. 2 COLD BLAST

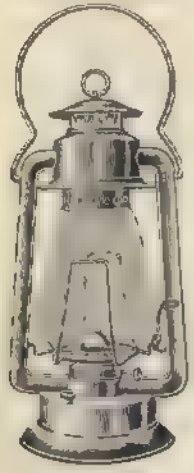


Fig. 1522

No. 2 COLD BLAST Dash

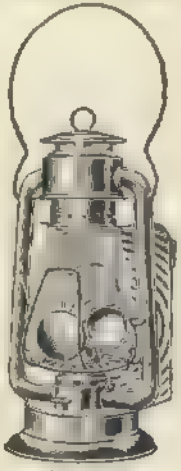
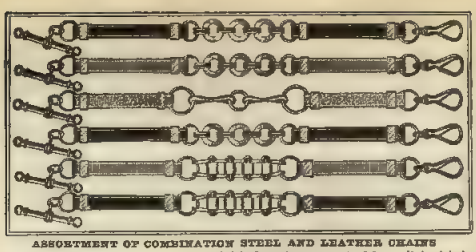


Fig. 1524

No. 2 BEST-EVR—Cold Blast

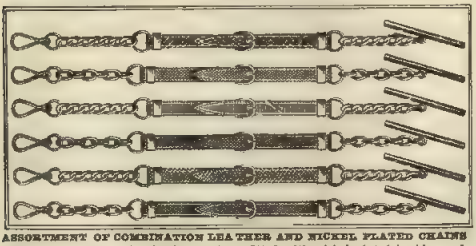
Fig. 1534

| Lantern | Globe Number | Burner Number | Wick Inches | PRICE PER DOZEN: Without Globes | With Globes | LARGE EXTRA GLOBES PER DOZEN: Plain | With Bails |
|---|---|---|---|---|---|---|---|
| No. 0 Perfect | 0 | 1 | | 9 50 | 8 15 | 60 | |
| " 0 " dash | 0 | 1 | | 9 50 | | 60 | 1 80 |
| " 2 Cold Blast | 2C B. | 2C B. | 1 | 14 50 | | 80 | |
| " 2 " " dash | 2C B. | 2C B. | 1 | 14 50 | | 80 | 2 00 |
| " 2 Best Evr, cold blast | C. B. | 2C B. | 1 | 13 00 | | | |



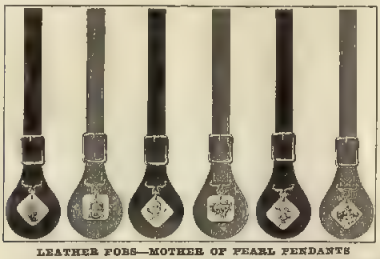
**ASSORTMENT OF COMBINATION STEEL AND LEATHER CHAINS**

These chains are well made and finished, centers consist of fancy link nickel plated chains and good quality leather extensions. The leather portions are fitted with nickel plated slides and fancy bars and swivels. Length, 9 inches.
No. 4940 Card assortment of one-half dozen, price..... $2.10



**ASSORTMENT OF COMBINATION LEATHER AND NICKEL PLATED CHAINS**

Chains are made with leather centers, fitted with nickel plated buckles and slides, nickel plated chain ends, fitted with bars and snaps, as shown in illustrations. Length of chain, 9 inches.
No. 4942 Card assortment of one-half dozen, price . . . . . $1.55



**LEATHER FOBS—MOTHER OF PEARL PENDANTS**

The leather straps and pendants are of fine quality leather. Straps are fitted with gold plated buckles. The swing ornaments on pendants consist of mother of pearl, mounted with rose gold finished figures. Put up six on a card.
No. 4944 Price per card..... $2.90

**LEATHER FOBS**

The straps and pendants are of fine quality leather. Colors, black, light and dark tan. Pendants are mounted with the latest designs of oriental ornaments, finished in Roman gold, green rose gold and silver oxidized. Straps are fitted with nickel plated buckles. Put up six on a card.
No. 4946 Price per card..... $2.90

# Combination Leather and Metal Chains and Fob Assortments

**LEATHER FOBS WITH GOLDSTONE CHARMS**

Fobs are made of fine quality black leather, morocco and seal grains, fitted with snap buttons instead of buckles. Pendant charms are made of goldstone. They are very neat and dressy. Put up six on a card.
No. 4941 One card of six fobs, price..... $6.00

**LEATHER FOBS FITTED WITH PATENT CLASPS AND CHAINS**

Fobs are made of fine quality black leather, seal grain, fitted with patent clasps and chain safeguard for watch, preventing unexpected fall or theft. Pendants are of solid metal, raised athletic designs, very artistic, finished in Roman gold and silver oxidize. Put up six on a card.
No. 4943 One card of six fobs, price..... $5.52

**LEATHER FOBS**

These fobs are made of fine quality black leather, seal grain, mounted with solid metal pendants, athletic designs, finished in Roman gold and silver oxidize. Put up six on a card
No. 4945 One card of six fobs, price..... $3.00

**LEATHER FOBS**

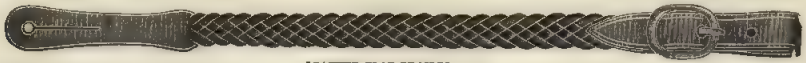
The straps of these fobs are made of good quality black leather, fitted with nickel plated buckles. The metal pendants are very attractive, finish in Roman gold and silver oxidize. Put up six on a card.
No. 4947 One card of six fobs, price..... $2.00

# LEATHER CHAINS AND WRIST WATCH STRAP

**LEATHER ROUND BRAIDED VEST CHAIN**

Made of a fine grade selected calfskin leather. It is soft, pliable and neatly finished, braiding is round and uniform, and is fitted with heavily nickel plated buckle. For strength and durability it is unequaled.

No. 4948 Length, 9¼ inches; one dozen on neatly printed card. Per dozen ..... $5.75
No. 4949 Length, 11 inches; one dozen on neatly printed card. Per dozen ..... 7.70



**LEATHER FLAT BRAIDED CHAIN**

Made of a fine grade selected calfskin leather. It is of one piece leather, uniformly flat braided, strap end is strongly sewed to it, fitted with heavily nickel plated buckle.
No. 4950 Length, 9¾ inches; one dozen on neatly printed card. Per dozen..... $5 75

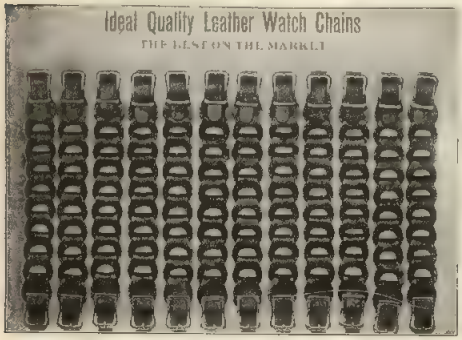
**LEATHER VEST CHAIN SMALL SIZE**

Cut shows link full size

Made of good quality leather, length over all 7½ inches.
No. 4951 One dozen on a card. Per dozen..... $1.70

**CALF SKIN LEATHER VEST CHAIN -LINKS FULL SIZE**

Links of this chain are cut from select quality calf skin leather and are of even thickness. It is the very best quality made. Fitted with heavy nickel plated double buckles.
No 4952 One dozen on a card. For dozen..... $3.70




**Our Special A C B Quality Leather Chains** are made of good quality calf skin leather, clean cut and neatly finished, fitted with heavily nickel plated buckles.

Put up on our A C B Special Card which will insure for you the biggest value for the money. Sold one dozen on a card.

No 4956 Price per card of one dozen $ 1.65
No. 4957 In full gross lots..... 13.35

**LEATHER VEST CHAINS—ONE DOZEN ON A CARD**

Cut shows links full size

No 4953 Made of good quality calf skin, nicely finished, fitted with nickel plated buckles. Per dozen ..... $3.30
No 4954 Made from good quality leather, assorted colors, fitted with nickel plated buckles. Per dozen ..... 1.35
No. 4955 Common quality. Per dozen ..... .95

Showing Bracelet and Adjustable Watch Holder.

Showing Bracelet and Watch locked in place.

**LEATHER CHAIN LOOP AND BUCKLE ENDS**

**New Loop and Buckle Ends Calf Leather Chain** made of fine quality calf skin leather, links are evenly cut. The loop end is a practical improvement and far more safe than buckle end. The length of chain including loop end is 7½ inches.

Put up one dozen on neatly printed card

No. 4958 Card of one dozen assorted, black and tan. Price . . $2.70

**NEW SPRING LINK BRACELET, FITTED WITH ADJUSTABLE WATCH HOLDING ATTACHMENT.**

Will hold American O size watch and smaller sizes. Perfectly safe

Made of 1-10 12K gold filled stock and guaranteed to wear indefinitely.

Bright Polished Links. Made in two arm sizes.

No. 4959 Brace et with six sections. Price each . . $10.00
No. 4960 Bracelet with seven sections. Price each. . 10.83

**WRIST STRAP WITH WATCH RECEPTACLE**

Our Wrist Straps are made of fine quality Calf Skin Leather, in either Black or Tan. Watch Receptacle is perfectly formed and is made in five different sizes, ranging from 10-0 size American Watch or small Swiss Chatelain to a six size American. Strap is fitted with leather covered buckle, the workmanship throughout is first class.

No. 4961 For 10-0 size or small Swiss Chatelain Watch, per dozen . . . . . $17.25
No. 4961½ For 3-0 size Hampden Jewel Series or Small 0-size. Per dozen . . . . . 17.25
No. 4962 For Regular 0-size - 1 7-16 in. receptacle. Per dozen . . . . . 17.25
No. 4963 For Ingersoll Midget, 1 0-16 in. receptacle. Per dozen . . . . . 17.25
No. 4963½ For Regular 6-size, 1 5-8 in. receptacle. Per dozen . . . . . 17.25

# DOUBLE BARREL SHOT GUNS

## LEFEVER HAMMERLESS

The mechanical construction of Lefever shot guns is such that all parts are interchangeable. The special features of this gun are, perfect compensated action to take up wear in every direction, indicators in the side plates to show whether or not the gun is cocked, gas-tight, independent plungers to prevent any chance of escape of gas into the locks, which is a cause of many gun explosions, one piece to raise hammers, extract shells and form a check to take strain off hinge joint, interchangeable main springs, and self-compensating bolt. These guns are guaranteed for nitro powder and can be taken apart or put together with hammers up or down.

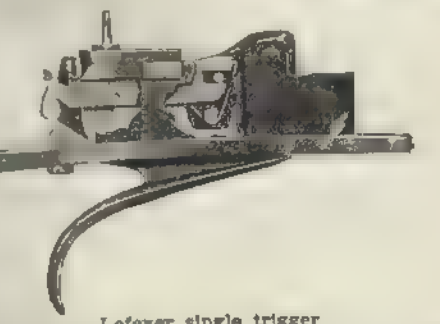
DURSTON SPECIAL

| | | Each | |
|---|---|---|---|
| No. SDS12 | —12-gauge; 30-inch Dura steel (black) barrels; imported walnut stock; half pistol grip; rubber butt plate; weight 7¼ to 7¾ lbs | $37 00 | $42.00 |
| No. SDS16 | —16-gauge; 28-inch barrels, weight 6¼ to 7 lbs., otherwise same as No. SDS12 | 37.00 | 42.00 |
| No. SDS20 | —20-gauge, 26-inch barrels; weight 5¾ to 6¼ lbs., otherwise same as No. SDS12 | 37.00 | 42.00 |
| *No. SDSE12 | —12-gauge; automatic ejector; otherwise same as No. SDS12 | 52.00 | 58 00 |
| *No. SDSE16 | —16-gauge; automatic ejector; otherwise same as No. SDS16 | 52.00 | 58 00 |
| *No. SDSE20 | —20-gauge; automatic ejector; otherwise same as No. SDS20 | 52 00 | 58 00 |

No. SH

| | | Each | |
|---|---|---|---|
| *No. SH12 | —12-gauge, 30 or 32 inch best grade London twist barrels; English walnut stock; full pistol grip with rubber cap, checked, rubber butt plate, weight 7¼ to 7¾ lbs | $44 00 | $56 50 |
| *No. SHE12 | -12 gauge, automatic ejector, otherwise same as No. SH12 | 59 00 | 76.40 |
| *No. SG12 | —12-gauge; 30 or 32-inch Damascus or royal steel barrels (black); English walnut stock; full pistol grip with rubber cap; checked, fine engraving rubber butt plate, weight 7¼ to 7¾ lbs. | $57 00 | 73 00 |
| *No. SG16 | —16-gauge, 28 or 30 inch barrels, weight 6¼ to 7 lbs., otherwise same as No SG12 | 57.00 | 73 00 |

Nos SF12 to SE20



Lefever single trigger

| | | Each | |
|---|---|---|---|
| *No. SF12 | —12-gauge; 30-inch Damascus or Premier steel barrels (black); English walnut stock; checked, and nicely engraved; full pistol grip with rubber cap; rubber butt plate; weight 7¼ to 7¾ lbs. | $80.00 | $77.14 |
| *No. SE10 | —10-gauge; 30 or 32-inch Damascus or Krupp fluid steel barrels; English walnut stock full pistol grip with rubber cap; finely engraved and checked, rubber butt plate, weight 8 to 9 lbs | $100.00 | 121.50 |
| *No. SE12 | —12-gauge, 30 or 32 inch barrels, weight 7¼ to 7¾ lbs; otherwise same as No SE10 | 100.00 | 121 50 |
| *No SE16 | 16-gauge, 28 or 30 inch barrels; weight 6¼ to 7 lbs.; otherwise same as No SE10 | 100 00 | 121.50 |
| *No. SE20 | —20-gauge, 26 or 28 inch barrels, weight 5¾ to 6¼ lbs., otherwise same as No. SE10 | 100 00 | 121 50 |

Assorted weights, lengths, drops, etc., to suit purchaser.

## AUTOMATIC EJECTORS

| | | Each | |
|---|---|---|---|
| *Automatic Ejectors | —For Nos. SF12 to SE20 Lefever shot guns | $15.00 | $18.40 |

## LEFEVER SINGLE TRIGGER

A perfect single trigger, guaranteed by the manufacturers not to balk or double. The mechanism is very simple in construction, excellent in material and workmanship, and so arranged that either barrel may be fired at will, shifting or choice of the right or left barrel for first fire being given by moving the safety slide, which, when the letter "S" is shown means "safe." When the safety slide is pushed forward the letter "R" is exposed, indicating that the right hand barrel will be fired first. When the slide is pushed backward the letter "L" is exposed, indicating that the left hand barrel will be fired first

| | | Each | |
|---|---|---|---|
| *Lefever Single Trigger | —For any Lefever shot gun | $35 00 | $44.00 |

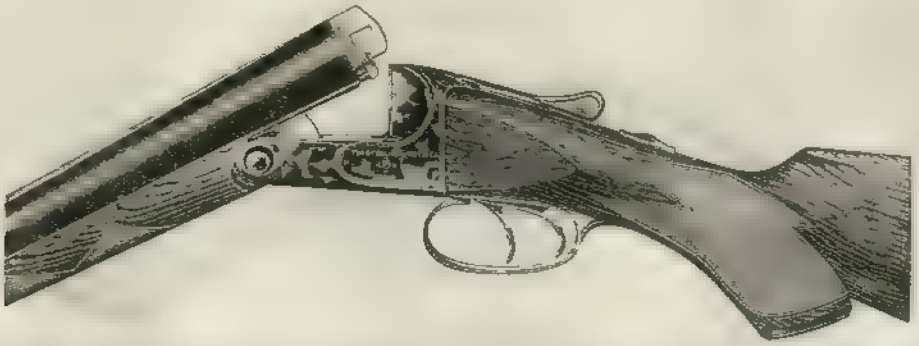
Packed, all above, one in cardboard box.

NOTE—Goods marked thus (*) are for factory shipment only.

# DOUBLE BARREL SHOT GUNS

## STERLINGWORTH HAMMERLESS

A high grade gun at very moderate price Sterlingworth hammerless guns will not be furnished according to other specifications than are given here, except when made to special order, for which an extra charge will be made; to complete all such orders will require from three to eight weeks after their receipt at the factory.

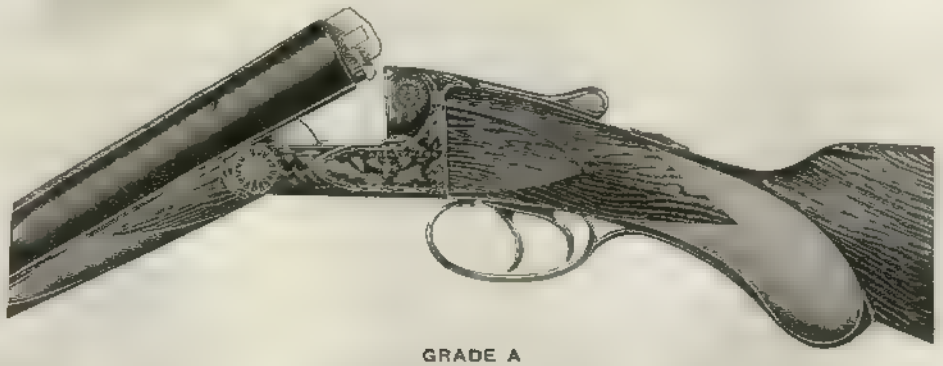


| | | Each |
|---|---|---|
| No. SS12 | 12-gauge, 30 inch Sterlingworth fluid compressed steel barrels, American walnut stock with full cap pistol grip, patent fore-arm snap, both barrels full choke; carefully tested, drop 2⅜ inches; length of stock 14 inches; weight 7½ to 7¾ lbs ..... $25 00 | $42 00 |
| No. SS16 | —16-gauge; 28-inch Sterlingworth fluid compressed steel barrels, weight 6¼ to 7 lbs., otherwise same as No SS12.. ..... 25 00 | 42 00 |
| No. SS20 | —20-gauge; 26-inch barrels, weight 5¾ to 6¼ lbs.; otherwise same as No SS12 ..... 25 00 | 42 00 |

Packed, one in cardboard box.

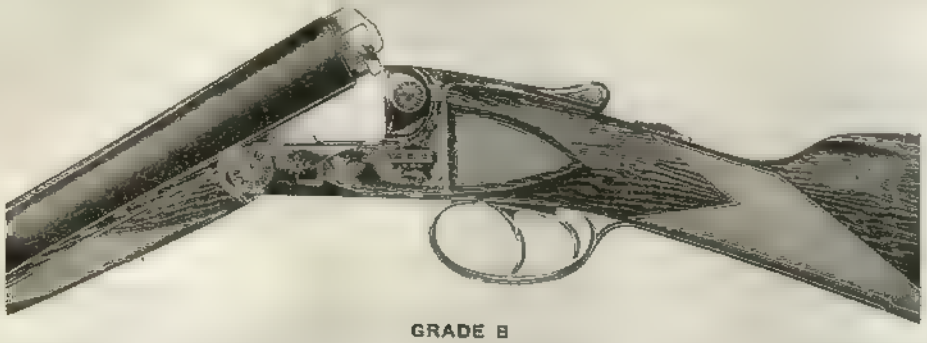
## FOX HAMMERLESS

Barrels of genuine Krupp fluid steel, of different quality according to grade, made heavy and strong, perfectly balanced; well proportioned and securely locked to frame by heavy rotary bolt through extension rib, so tapered as to automatically take up all wear and keep gun tight. Carefully selected stocks; mechanism simple and strong working parts made of hardened steel drop forgings, finely finished and polished; made accurately to gauge, and interchangeable. The lock consists of three unbreakable parts, nonbreakable safety spring and ejector spring The top lever is operated by a coil top lever spring, which is an exclusive feature of this gun, is applied under compression and guaranteed against breakage Fox guns are guaranteed to shoot any standard smokeless powder, without working loose, and the frame containing the mechanism is ½-pound lighter and very much stronger than that of many guns having more complicated mechanisms.



GRADE A

| | | Each |
|---|---|---|
| *No. SFA12 | —12-gauge 30 or 32-inch genuine Krupp fluid steel barrels handsome dark walnut stock, checked half pistol grip; concave matted rib with rotary bolted extension, Deeley & Edge pattern fore-arm, hard rubber butt plate, engraved and finished in every detail; weight 6⅛ to 8 lbs..... $50.00 | $62 00 |
| *No. SFAE12 | —12-gauge automatic ejector; otherwise same as No SFA12 . . . . 65 00 | 74 00 |



GRADE B

| | | Each |
|---|---|---|
| *No SFB12 | —12-gauge 30 or 32-inch genuine Krupp fluid steel barrels; fine selected English walnut stock; concave matted rib with rotary bolted extension; Deeley & Edge pattern fore-arm, hard rubber butt plate; fine finish and engraving; weight 6⅛ to 8 lbs. ..... $75.00 | $86.00 |
| *No. SFBE12 | —12-gauge; automatic ejector; otherwise same as No. SFB12 . . . . 90.00 | 98 00 |

Special weights, lengths, drops, etc., to suit purchaser.
Packed, all above, one in cardboard box.

NOTE—Goods marked thus (*) are for factory shipment only.

## ICE CREAM DISHERS

Tinned steel bowl and scraper; tinned malleable iron handle

| Nos. | 10 | 8 | 6 | 4 |
|---|---|---|---|---|
| Number to quart | 10 | 8 | 6 | 4 |
| Weight per dozen, lbs. | 2½ | 2¾ | 3 | 3¼ |
| Dozen | $2 00 | 2 00 | 2 00 | 2.00 |

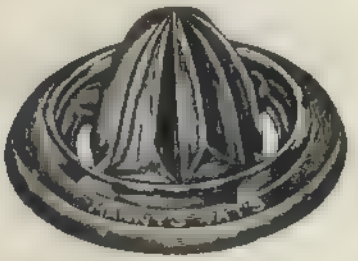
Packed, one dozen in box.

Extra heavy seamless bowl, retinned; German silver blades; malleable iron handle, retinned

| Nos. | 80 | 60 | 40 |
|---|---|---|---|
| Number to quart | 8 | 6 | 4 |
| Weight per dozen, lbs. | 2½ | 2¾ | 3 |
| Dozen | $4 50 | 4.70 | 5.00 |

Packed one dozen in box

## JUICE EXTRACTORS



MANNY

Doz.

No. 1—Diameter 3¾ inches; made of clear glass; to be used on tumbler; weight per dozen 5 lbs.. .....$ 0.90

Packed, one-third dozen in box.

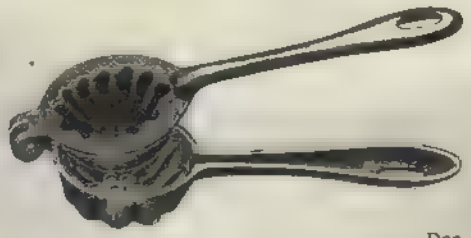
MANNY

Doz

No. 2—Diameter 5½ inches; clear glass, to be used without tumbler; weight per dozen 9½ lbs.....$ 1.90

Packed, one-half dozen in box.

## LEMON SQUEEZERS



Doz

No. 11—Tinned malleable iron; length 7½ inches; weight per dozen 7¾ lbs. $ 1.60

Packed, one dozen in box.

Doz

No. 795—Maple handles; wood ball; 2-inch cup; length 10 inches; weight per dozen 9 lbs .$ 2 20

Packed, three dozen in box.

Doz.

No. 4—Tinned, malleable iron; length 7¾ inches; weight per dozen 10½ lbs.$ 2.30

Packed, one-half dozen in box.

Doz.

No. 3—Black enameled frame; porcelain bowl; wood pressure bob; length 9 inches; weight per dozen 15 lbs.....$ 4.00

Packed, one-half dozen in box.

Doz.

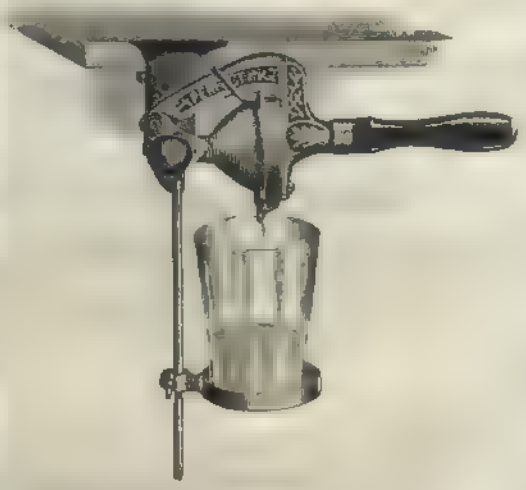
No. 10 Black japanned frame; aluminum bowl; length 9½ inches; weight per dozen 15 lbs.....$ 4.50

Packed, one-half dozen in box

Doz.

No. 22—Little Giant; tinned; length 9¾ inches; weight per dozen 16 lbs.... . $ 8.00

Packed, one-half dozen in box.



PERFECT

Each

No. 125—Highly polished, nickel plated frame; tinned malleable iron bowl; black enameled wood handle; for bars, hotels and restaurants; weight 6 lbs .$ 2.00

Packed, one in wood box

## ICE TONGS

No. 340

Nos. 1 to 3

Doz

No 340—Best crucible steel bows and points, plain black finish; span 14 inches; a very satisfactory pattern, simple and strong; weight per dozen 30 lbs. .....$17.00

Drop forged steel; hardened points; swell handle; painted red

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Span inches | 15 | 17 | 24 |
| Weight per dozen, lbs | 45 | 51 | 70 |
| Dozen | $14 50 | 16 00 | 19 50 |

No. 347

No. 6

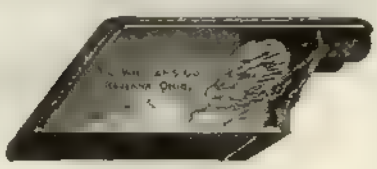
FAMILY

Doz.

No. 347—Columbus; flat steel; with hardened points; japanned; span 15 inches; weight per dozen 8 lbs.....$ 2.50

No. 6—Wrought steel; with hardened points; malleable iron handles; painted black; span 15 inches; weight per dozen 28½ lbs. ..... 9.80

## ICE SHAVES



ALASKA

Doz.

No. 290—Malleable iron, tinned; adjustable knife; 6½ inches long; weight per dozen 23 lbs.....$ 5.00

Packed, one-half dozen in box.

## ICE CHIPPERS

1⅛-inch steel points, hardened and tempered; tinned head and shank; varnished wood handle

Doz

No. 50—Length 9⅛ inches; points 2¼ inches wide; weight per dozen 5 lbs.$ 3 80

Packed, one in carton; one dozen in box.

## ICE CHISELS

Doz

No. 107—Heavy polished steel blade, 5 inches long, 3½ inches wide; polished steel ferrule; antique oak handle; heavy tinned cap; entire length 10½ inches; weight per dozen 8½ lbs.....$ 3 00

Packed, one-half dozen in box.

Nos. 1008, 1009 and 1010

No. 1005

Doz

No. 1008—Polished steel blade, 6½ inches long, 2⅞ inches wide; polished brass ferrule; hardwood handle 8 inches long; weight per dozen 13 lbs.....$ 9.00

No. 1009—Length of blade 9 inches; length of handle 9½ inches; otherwise same as No. 1008; weight per dozen 17½ lbs..... 13.50

No. 1010—Length of blade 10¾ inches; length of handle 11⅜ inches; otherwise same as No. 1008; weight per dozen 20 lbs..... 16.00

No. 1005—Extra quality polished steel blade, 8 inches long, 4¼ inches wide; malleable iron socket, hickory handle, with malleable D top 26 inches long; weight per dozen 42 lbs..... 20 00

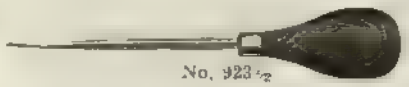
Packed, Nos 1008 to 1010, one-quarter dozen in box; No. 1005, loose.

## ICE PICKS

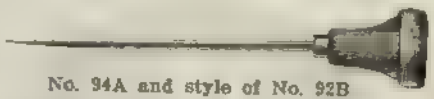
Doz.

No. 1554¾—Nickel plated, tempered steel blade, 6 inches long, 3 inch taper point; varnished wood handle; entire length 10⅝ inches; weight per dozen 1½ lbs.....$ 1.50

Packed, one dozen in box.



No. 923½



No. 94A and style of No. 92B

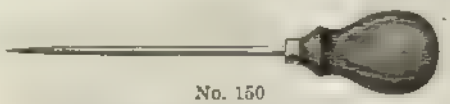
Doz

No. 923½—Nickel plated, tempered steel blade, 4¾ inches long, 1½-inch taper point; varnished, imitation cocobolo handle; entire length 8¾ inches; weight per dozen 2 lbs. ..... $ 1.50

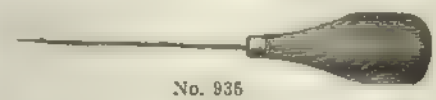
No. 94A—Nickel plated, tempered steel blade, 6⅝ inches long, 1½ inch taper point; varnished wood handle; tinned metal cap; entire length 9 inches; weight per dozen 3¼ lbs..... 1.80

No. 92B Blade 5¾ inches long, 1½ inch taper point, heavy tinned metal cap; entire length 9¾ inches; otherwise same as No. 94A; weight per dozen 5 lbs ..... 2 50

Packed, one-half dozen in box.



No. 150



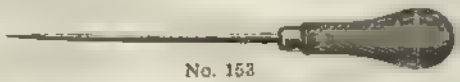
No. 935

Doz

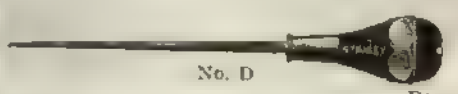
No. 150—Nickel plated, steel blade, 6¼ inches long, 1¼-inch taper point; varnished maple handle; entire length 9¼ inches; weight per dozen 3 lbs. .....$ 2.70

No. 935—Nickel plated, tempered steel blade, 6 inches long, 4⅛-inch taper point; nickel plated ferrule; varnished hardwood handle; entire length 10⅛ inches; weight per dozen 2½ lbs..... 3.00

Packed, one-half dozen in box.



No. 153



No. D

Doz

No. 153—Iceman's; nickel plated tempered steel blade, 9¼ inches long, 3-inch taper point; varnished hardwood handle; entire length 11 inches; weight per dozen 2½ lbs. .....$ 3 00

No. D—Blade, shank and head formed of one piece polished steel; blade 5⅛ inches long, with finely tempered needle point; hexagon malleable iron band around ebonite finished handle; entire length 9½ inches; weight per dozen 4½ lbs..... 6.00

Packed, one-half dozen in box.

# COMPASSES

## LIQUID YACHT COMPASSES

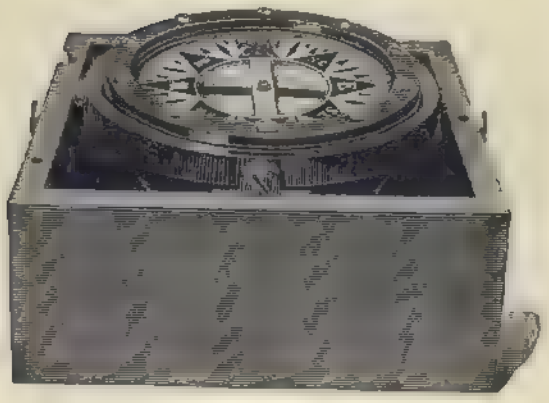


Fig. 1566

| Number | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Diameter of card.....inches | 2 | 2⅝ | 3¼ | 4¼ | 5¼ | 6¼ |
| Size of box, outside..... " | 4½x4½ | 5¼x5¼ | 6x6 | 8x8 | 9x9 | 10x10 |
| Price.....each | 9.00 | 13.00 | 17.00 | 24.00 | 30.00 | 36.00 |

## RITCHIE SPIRIT COMPASSES Flat Card, Central Buoyancy

| Number | Diameter of Card Inches | Outside Diameter of Gimbal Ring Inches | Size of Box Inches | Price, Each | |
|---|---|---|---|---|---|
| | | | | With Box | Without Box |
| 37 | 1¾ | 3½ | 12½ | 75.00 | 72.00 |
| *39 | | | | 75.00 | 72.00 |
| 45 | 3¼ | 12½ | 13¾ | 47.00 | 41.75 |
| *47 | | | | 47.00 | 41.75 |
| 49 | 2½ | 11¾ | 12 | 39.00 | 37.00 |
| *51 | | | | 39.00 | 37.00 |
| 53 | 2¾ | 9¾ | 11 | 32.00 | 30.50 |
| *55 | | | | 32.00 | 30.50 |
| 57 | 2¼ | 8¼ | 9½ | 31.00 | 29.75 |
| *59 | | | | 31.00 | 29.75 |
| 61 | 1½ | 6¼ | 8¼ | 27.50 | 26.25 |
| 63 | 1¼ | 6 | 7¼ | 25.00 | 24.00 |
| 65 | 1 | 5¼ | 6¾ | 23.00 | 21.75 |
| 69 | ¾ | 3½ | 4½ | 10.00 | 9.50 |

*Nos. 39, 47, 51, 55 and 59 are graduated to degrees.

# BAROMETERS AND MARINE GLASSES

## BAROMETERS

No. 2304

Fig 1567

No. 2307

Fig 1568

Nos. 2301, 2305 AND 2307

Fig 1569

| | | | |
|---|---|---|---|
| Price No. | 2303, 3½ inch, open metal dial No. 1 case, in cardboard case | each | 3.20 |
| " | 2304, 4 " " " " " " " | " | 4.70 |
| " " | 2301, 5 " metal dial, brass lacquered case, in morocco case | " | 10.50 |
| " " | 2305, 5 " " " " " with thermometer in morocco case | " | 15.80 |
| " " | 2301, Horizontal barometer, 4½ inch metal dial, brass case | " | 16.00 |
| " " | 2306, " " 5 " open " " " | " | 22.50 |
| " " | 2307, " " 5 " " " " " with thermometer | " | 26.70 |

## MARINE GLASSES 28 Ligne

Fig 1570

These glasses are best French make and are standard equipment for marine use and are absolutely guaranteed. The objectives is large to admit abundance of light for night work, while the power is sufficient for all day work. The higher powered glasses are of comparatively little value in the night for picking up lights etc. The lower powered glasses are of little value in the day time.

| | | |
|---|---|---|
| Price | per pair | 18.00 |

# AUTOMATIC PISTOLS

## HARRINGTON & RICHARDSON

A self-loading hammerless pistol of the automatic type, a separate pressure on the trigger is required for each shot, simple in construction, reliable and efficient; light and compact; positive safety located so that it can be operated by the thumb of the right hand.

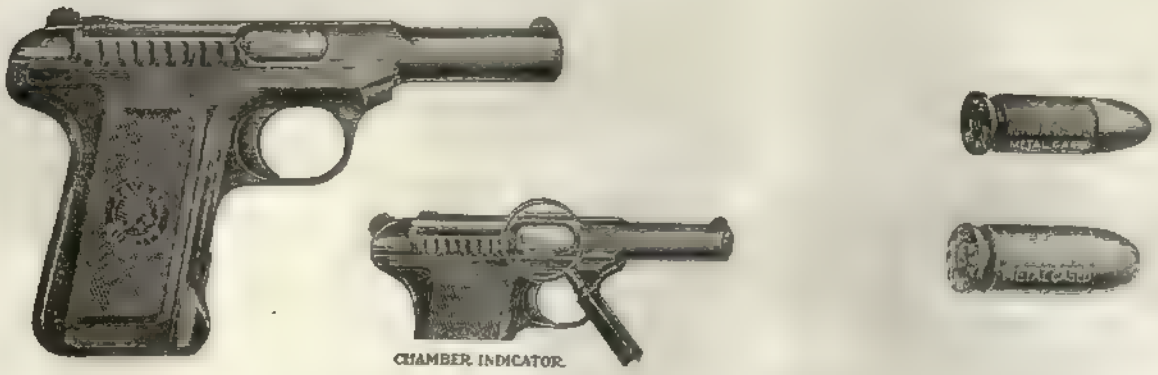
| | Each |
|---|---|
| **No. S128**—.25-caliber; capacity of magazine 6 shots; extreme length 4½ inches; length of barrel 2 inches; weight 12½ oz. | $16 00 |

## LUGER

This pistol has been adopted by the board of Ordnance and fortifications of the United States Army. Its chief points are fine appearance, balance, simplicity of action, rapidity of fire and wonderful accuracy. It operates on the link system. The magazine, holding eight cartridges, is placed inside the stock of the pistol. The barrel and breech blocks are movable. The recoil from the discharge of the cartridge forces the barrel and breech block backward, extracting and ejecting the empty shell. The magazine spring then brings a new cartridge up into place to be forced into the breech automatically by the return of the breech block, leaving the pistol again loaded and ready to be discharged. The magazine can be thrown out when empty (by pressure of the thumb on the magazine catch) and replaced in an instant by a full one, thus enabling the pistol to be fired at the rate of 116 shots per minute.

| | Each |
|---|---|
| **No. S7**—7M/M caliber; center fire; 8 shots; blued finish, checked walnut stock; extreme length 9½ inches, length of barrel 4 inches, height 5½ inches, weight 32 oz. | $46 00 |
| **No. S9**—9M/M caliber; length of barrel 4 inches, extreme length 8½ inches, weight 32 oz., otherwise same as No. S7 | 46 00 |

## SAVAGE POCKET MODEL




CHAMBER INDICATOR

A powerful, accurate, rapid fire pistol; mechanism is semi-automatic or self-loading, in which the recoil of firing the cartridge extracts and ejects the empty shell, cocks the pistol, reloading it in readiness for the next shot, to fire each of which the trigger must be pulled; entire arm can be quickly taken apart and put together without tools; safety is positive and can be operated with thumb of firing hand; has an indicator which tells at all times whether pistol is loaded

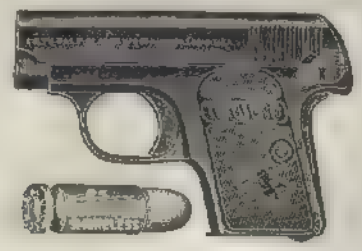
| | Each |
|---|---|
| **No. S70**—Case hardened frame, blued finish; take down plug; rubber stock, shoots .32-caliber Savage or Colt automatic rimless, smokeless center fire cartridge with metal patched bullet; capacity of magazine 10 shots; length of barrel 4 inches; extreme length 6½ inches, weight 19 oz. | $25 00 |
| **No. S780**—Shoots .380-caliber automatic rimless, smokeless, center fire cartridge, with metal patched bullet; capacity of magazine 7 shots; length of barrel 4⅛ inches; extreme length 7 inches; weight 21 oz. | 26 00 |

Packed, all above, one in box.

# AUTOMATIC PISTOLS

## COLT

The action of Colt's Automatic Pistol is automatic, except that the trigger must be pulled to fire each shot. The arm can be discharged at the rate of five shots per second, the cartridges being automatically supplied from a detachable magazine inserted in the handle of the pistol. After the pistol is charged with a filled magazine, one opening movement is made by the hand, bringing the first cartridge into the chamber. On pulling the trigger the cartridge is fired the empty shell is ejected and a new cartridge loaded into the chamber. All these operations take place automatically without any manipulation of the arm. This automatic operation of the pistol is effected by the recoil of the moving parts and as a consequence the recoil is so absorbed in being utilized that it has not the usual disturbing effect.



POCKET MODEL

.25-Caliber

Case hardened frame; blued finish; take down plug; rubber stock; shoots .25 caliber Colt automatic rimless, smokeless center fire cartridge with metal patched bullet.

Each

No. S73C Capacity of magazine 6 shots, length of barrel 2 inches; extreme length 4½ inches; weight 13 oz. . . . . $20 00

.32-Caliber

Shoots .32 caliber Colt automatic rimless, smokeless, center fire cartridge with metal patched bullet; otherwise same as No. S73C

Each

No. S76C—Capacity of magazine 8 shots; length of barrel 3¾ inches; extreme length 6¾ inches; weight 23 oz. . . . . $26.00

380-Caliber

Shoots .380 Colt Automatic rimless, smokeless, center fire cartridge with metal patched bullet, otherwise same as No. S73C

Each

No. S74C Capacity of magazine 7 shots; length of barrel 3¾ inches; extreme length 6¾ inches; weight 25 oz. . . . . $27.00

.38-Caliber

Shoots .38 caliber Colt Automatic rimless, smokeless center fire cartridges with metal patched bullet; otherwise same as No. S73C.

Each

No. S77C Capacity of magazine 7 shots, length of barrel 4½ inches, extreme length 7½ inches weight 32 oz. . . . . $34.00

MILITARY MODEL

.38-Caliber

Case hardened frame, blued finish, take down plug; rubber stock; with belt loop; shoots .38-caliber Colt automatic rimless, smokeless center fire cartridge, with metal patched bullet

Each

No. S79C—Capacity of magazine 8 shots; length of barrel 6 inches; extreme length 9¼ inches, weight 38½ oz. . . . . $36 00

MILITARY MODEL 1911

45-Caliber

Case hardened frame blued finish; take down plug; checked walnut stock; belt loop; shoots 45-caliber Colt automatic rimless, smokeless center fire cartridge with metal patched bullet. This pistol has been adopted by the U. S. government as the service side arm.

Each

No. S80C—Capacity of magazine 7 shots; length of barrel 5 inches; extreme length 8½ inches; weight 39 oz. . . . . $37.00

## EXTRA MAGAZINES FOR COLT'S AUTOMATIC PISTOLS

| | | Each |
|---|---|---|
| No. S73M | Magazine complete for .25 automatic Colt. . . . . | $ 0.80 |
| No. S76M | Magazine complete for 32 automatic Colt | 1 04 |
| No. S74M | Magazine complete for .380 automatic Colt | 1 04 |
| No. S77M | —Magazine complete for .38 automatic Colt. . . . . | 1.36 |
| No. S79M | Magazine complete for .38 military model automatic Colt . . . . . | 1.36 |
| No. S80M | —Magazine complete for 45 automatic U. S. army model . . | 1.60 |

Packed, all above; one in box.

# LUMBERING TOOL REPAIRS

## TOE RINGS

MALLEABLE IRON — FORGED STEEL

Short — Extension

Fig. 1453

Fig. 1454

Fig. 1455

| | | | |
|---|---|---|---|
| Price, short, for 2 1/2, 2 3/4, or 3 inch tools. | per dozen | | 1 50 |
| " Extension, for all size tools | " | | 2 50 |
| " Forged steel, for all size tools | " | | 3 00 |

COMBINED CLIP AND TOE RING — MALLEABLE PEAVEY SOCKET

Fig. 1456

Fig. 1457

## COMBINED CLIP AND TOE RINGS

| | | |
|---|---|---|
| Price, for all size tools | per dozen | 3 00 |

## MALLEABLE PEAVEY SOCKETS

| | | | | | |
|---|---|---|---|---|---|
| For tools | inches | 2 1/4 | 2 1/2 | 2 3/4 | 3 |
| Price | per dozen | 9 50 | 10 00 | 10 50 | 12 50 |

FORGED STEEL PEAVEY PICK — ALL STEEL PEAVEY SOCKET

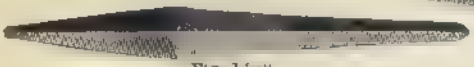


Fig. 1458

Fig. 1459

## FORGED STEEL PEAVEY PICKS

| | | |
|---|---|---|
| Price, for all size tools | per dozen | 7 75 |

## ALL STEEL PEAVEY SOCKETS

| | | | | | |
|---|---|---|---|---|---|
| For tools | inches | 2 1/4 | 2 1/2 | 2 3/4 | 3 |
| Price | per dozen | 22 50 | 25 00 | 27 50 | 30 00 |

CANT HOOK CLASPS — CANT HOOK CLIP

Malleable — Hand Forged Steel

Fig. 1460

Fig. 1461

Fig. 1462

## CANT HOOK CLASPS

| | | | | | |
|---|---|---|---|---|---|
| Size | inches | 1 1/2 | 2 | 2 1/2 | 3 |
| Price, malleable iron | per dozen | 4 50 | 5 00 | 6 25 | 7 00 |
| Hand forged steel | " | 7 50 | 8 25 | 8 50 | 9 50 |

## CANT HOOK CLIPS

| | | |
|---|---|---|
| Price, malleable iron, for all size tools. | per dozen | 2 25 |
| Forged steel, " " " " | " | 3 00 |

# LUMBERING TOOL REPAIRS

## PIKE POLE PIKES AND HOOKS

STRAIGHT

Fig. 1463

CURVED

Fig. 1464

| | |
|---|---|
| Price, straight or curved . . . . . per dozen | 10.00 |

PIKE ONLY

Fig. 1465

PIKE POLE FERRULE

Fig. 1466

| | |
|---|---|
| Price, pikes only . . . . . per dozen | .25 |
| " Pike pole ferrules . . . . . " | 4.50 |

## HOOKAROON HEADS

LIGHT

Fig. 1467

HEAVY

Fig. 1468

DOUBLE

Fig. 1469

| | |
|---|---|
| Price, light, axe eye . . . . . per dozen | 8.00 |
| " Heavy " " . . . . . " | 11.25 |
| " Double solid eye . . . . . " | 12.50 |

EVENER STAPLE

Fig. 1470

EVENER CLEVIS

Fig. 1471

| | |
|---|---|
| Price, evener staple, 1-inch iron . . . . . per dozen | 9.50 |
| " " clevis, with screw or cotter pin . . . . . " | 9.00 |

SWIVEL HOOK

Fig. 1472

EVENER SWIVEL GRAB HOOK

Fig. 1473

| | |
|---|---|
| Price, swivel round hook, 1-inch steel, $\frac{5}{8}$-inch ring . . . . . per dozen | 12.00 |
| " " grab " 1 " " $\frac{5}{8}$ " " . . . . . " | 12.00 |
| " Evener swivel grab hook, 1-inch steel, $\frac{5}{8}$-inch ring . . . . . " | 17.50 |

# LUMBERING TOOLS

GRAPPLE HOOK
Octagon Steel

SWAMP HOOKS

Nos. 550 to 552
Octagon Steel
Round Point

No 553
Square Steel
Round Point

No 556
Flat Steel
Round Point

Chisel Point

Fig. 1435 Fig. 1436 Fig. 1437 Fig. 1438 Fig. 1439

## GRAPPLE HOOKS With Heavy Upset Points

| Number | 542 | 543 | 544 | 545 | 546 |
|---|---|---|---|---|---|
| Size steel, inches | ¾ | ⅞ | 1 | 1⅛ | 1¼ |
| Price, per dozen | 36.00 | 41.65 | 43.40 | 48.70 | 50.40 |

## SWAMP HOOKS With Heavy Upset Points, Grab Hook and Rings

| Number | 550 | 551 | 552 | 553 | 554 |
|---|---|---|---|---|---|
| Size steel, inches | ¾ | ⅞ | 1 | 1⅛ | 1¼ |
| Price, per dozen | 24.00 | 27.50 | 30.80 | 34.10 | 37.40 |

## LOADING HOOKS

No 559
Square Steel
Round Point

No 560
Octagon Steel
Round Point

No 561
Flat Steel
Chisel Point

No. 849
Flat Steel
Round Point

No 562
Rollway Breaking Hook

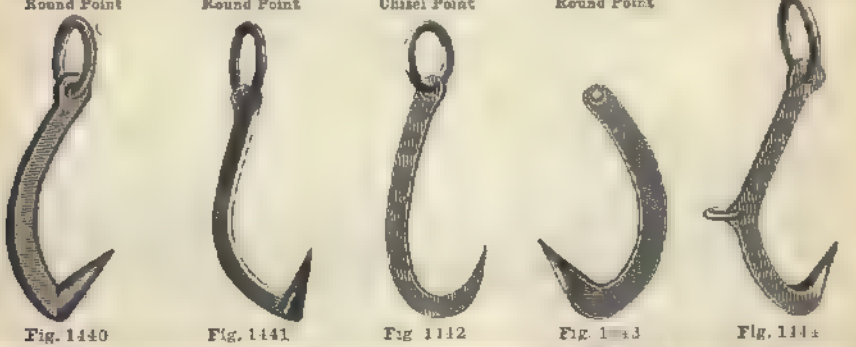


Fig. 1440 Fig. 1441 Fig. 1442 Fig. 1443 Fig. 1444

| Number | 559 | 560 | 561 | 849 | 562 |
|---|---|---|---|---|---|
| Size steel, inches | ¾ | ⅞ | 1 | 1⅛ | 1¼ |
| Price, per dozen | 36.00 | 41.65 | 43.40 | 48.70 | 50.40 |

# LUMBERING TOOL REPAIRS

## HOOKS FOR PEAVIES AND CANT HOOKS

DUCKBILL HEAD

Fig. 1445

ROUND HEAD

Fig 1446

CHISEL POINT

Fig 1447

CONCAVE OR HOLMES DUCKBILL

Fig. 1448

DIAMOND HEAD TOP LOADER

Fig 1449

### DUCKBILL AND ROUND HEADS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Number, duckbill | 503 | 504 | 5[illegible] | *5[illegible] | 506 | 507 | [illegible]8 |
| " Round | 368 | 369 | [illegible] | *[illegible] | 372 | 373 | 374 |
| Size of iron, inches | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| Price, per dozen | 11 00 | 12 50 | 15.00 | 16 00 | 17 [illegible] | [illegible] 00 | [illegible] |

*Extra long

### CHISEL POINTS

| | | | | |
|---|---|---|---|---|
| Number | [illegible] | [illegible] | [illegible] | [illegible] |
| Size of iron, inches | [illegible] | [illegible] | [illegible] | [illegible] |
| Price, per dozen | [illegible] | 10 [illegible] | [illegible] | [illegible] |

### CONCAVE OR HOLMES DUCKBILLS

| | | | |
|---|---|---|---|
| Number | [illegible] | 376 | 377 |
| Size of iron, inches | [illegible] | [illegible] | [illegible] |
| Price, per dozen | [illegible] | 16 [illegible] | [illegible] |

### EXTRA HEAVY DIAMOND HEAD TOP LOADERS

| | | | | |
|---|---|---|---|---|
| Number | [illegible] | 3 | 380 | *572 |
| Size of iron, inches | 1 x 1½ | 1⅛ x 1½ | 1¼ x 1½ | 1 x 1½ |
| Price, per dozen | 17.50 | 20 00 | 22.50 | 23 40 |

*Made of tool steel, can also be furnished with duckbil[illegible]

CANT HOOK AND PEAVEY BOLTS
Square Under Head

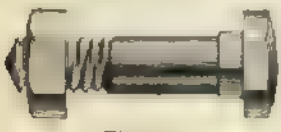


Fig 1450

Special Cant Hook Bolt

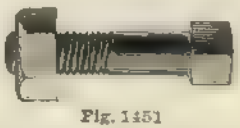


Fig. 1451

LUG HOOK OR TIMBER CARRIER CLASP AND SWIVEL

Fig 1452

### CANT HOOK AND PEAVEY BOLTS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Size, inches | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| Price, square under head, per hundred | [illegible] | [illegible] | 5 [illegible] | 6 [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| " Special cant hook | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

### LUG HOOKS OR TIMBER CARRIER CLASP AND SWIVELS

| | |
|---|---|
| Price, per dozen | 12 50 |

# LUMBERING TOOLS

## PEAVIES

**With Duckbill, Round or Diamond Head Hooks**

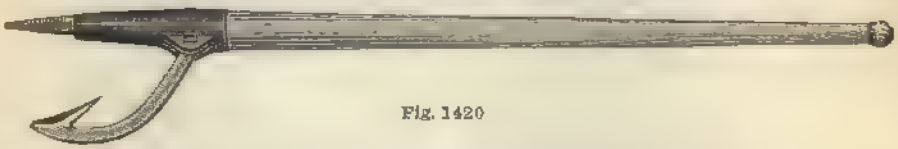


Fig. 1420

### MALLEABLE SPLIT AND SOLID SOCKET PEAVIES

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Length handle.....feet | 3 | 3½ | 4 | 4½ | 5 | 4½ | 5 | 5½ | | |
| Diameter handle.....inches | 2 | 2 | 2¼ | 2¼ | 2½ | 2½ | 2½ | 2½ | 2½ | 2½ |
| Price, maple handle.....per dozen | 23 50 | 24 00 | 24 50 | 25 40 | 26 50 | 25 70 | 26 40 | 27 10 | 27 80 | |
| " Hickory " " | 30 00 | 30 80 | 31 50 | 32 50 | 33 50 | 32 50 | 33 90 | 34 90 | | |
| Length handle.....feet | 4½ | 5 | 5½ | 6 | 4½ | 5 | 5½ | 6 | | |
| Diameter handle.....inches | 2¾ | 2¾ | 2¾ | 2¾ | 3 | 3 | 3 | 3 | | |
| Price, maple handle.....per dozen | 30 40 | 31 10 | 31 80 | 32 50 | 34 20 | 34 90 | 35 60 | 36 30 | | |
| " Hickory " " | 37 80 | 38 80 | 39 40 | 40 40 | 42 10 | 43 00 | 44 00 | 45 00 | | |

## CANT HOOKS

**With Duckbill, Round or Diamond Head Hooks**

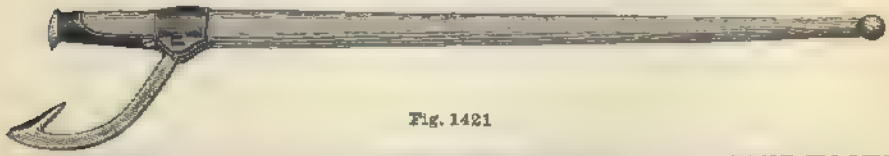


Fig. 1421

### MALLEABLE CLASP SHORT AND EXTENSION TOE RING CANT HOOKS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length handle.....feet | 3½ | 4 | 4½ | 5 | 5½ | 4½ | 5 | |
| Diameter handle.....inches | 2¼ | 2½ | 2½ | 2½ | 2½ | 2¾ | 2¾ | |
| Price, maple handle.....per dozen | 18 50 | 18 75 | 19 40 | 20 60 | 20 65 | 22 50 | 23 15 | |
| " Hickory " " | 23 75 | 24 00 | 24 80 | 25 60 | 26 40 | 28 60 | 29 30 | |
| Length handle.....feet | 5½ | 6 | 4½ | 5 | 5½ | 6 | | |
| Diameter handle.....inches | 2¾ | 2¾ | 3 | 3 | 3 | 3 | | |
| Price, maple handle.....per dozen | 23 80 | 24 45 | 28 20 | 28 85 | 29 50 | 30 15 | | |
| " Hickory " " | 30 00 | 30 70 | 35 40 | 36 20 | 37 00 | 37 80 | | |

### MILL CARRIAGE CANT HOOKS Short and Extension Toe Ring

| | | | |
|---|---|---|---|
| Length handle.....feet | 3 | 3½ | 4 |
| Diameter handle.....inches | 2¼ | 2¼ | 2¼ |
| Price, maple handle, malleable iron clasps.....per dozen | 19.45 | 9.90 | 20 35 |
| " Hickory " " " " " " | 22.20 | 22.65 | 22.90 |
| " Maple " wrought steel " " " | 21.50 | 21.95 | 22.20 |
| " Hickory " " " " " " | 24.25 | 24.65 | 24.95 |

### TOP LOADERS CANT HOOKS—Duckbill or Diamond Head Hooks

| | |
|---|---|
| Length handle.....feet | 4½ |
| Diameter handle.....inches | 2½ |
| Price, maple handle.....per dozen | 41 65 |
| " Hickory " " | 45 25 |

# LUMBERING TOOLS

## CANT HOOK AND PEAVEY HANDLES

Fig 1418

### ROCK MAPLE AND BEECH HANDLES

| Number | 966 | 700 | 701 | 702 | 967 | 968 | 703 | 704 | 705 |
|---|---|---|---|---|---|---|---|---|---|
| Length, feet | 3 | 3½ | 4 | 4½ | 3 | 3½ | 4 | 4½ | 5 |
| Diameter, inches | 2¼ | 2¼ | 2¼ | 2¼ | 2½ | 2½ | 2½ | 2½ | 2½ |
| Price, per dozen | 2 50 | 2 75 | 3 00 | 3 40 | 2 50 | 2 75 | 3 00 | 3 40 | 3 80 |
| Number | 706 | 707 | 708 | 709 | 710 | 711 | 712 | 713 | 714 |
| Length, feet | 5½ | 6 | 4½ | 5 | 5½ | 6 | 5 | 5½ | 6 |
| Diameter, inches | 2½ | 2½ | 2¾ | 2¾ | 2¾ | 2¾ | 3 | 3 | 3 |
| Price, per dozen | 4.20 | 4 60 | 4 20 | 4 60 | 5 00 | 5.40 | 5.40 | 5 80 | 6 20 |

### HICKORY HANDLES

| Number | 774 | 850 | 851 | 985 | 986 | 776 | 777 | 780 | 751 | 752 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length, feet | 3 | 3½ | 4 | 4½ | 5 | 3 | 3½ | 4 | 4½ | 5 |
| Diameter, inches | 2¼ | 2½ | 2¼ | 2½ | 2½ | 2½ | 2½ | 2½ | 2½ | 2½ |
| Price, per dozen | 4 00 | 4 50 | 5 40 | 6 00 | 6 70 | 4 00 | 4 50 | 5 40 | 6 30 | 7 50 |
| Number | 753 | 754 | 755 | 756 | 757 | 778 | 759 | 760 | 761 | |
| Length, feet | 5½ | 6 | 4½ | 5 | 5½ | 6 | 5 | 5½ | 6 | |
| Diameter, inches | 2½ | 2½ | 2¾ | 2¾ | 2¾ | 2¾ | 3 | 3 | 3 | |
| Price, per dozen | 7 50 | 8 40 | 7 50 | 8 50 | 9 10 | 9.65 | 9 60 | 11 50 | 11 50 | |

Prices are for handles not bored. If wanted bored for peavey pick, add, net per dozen .15.

## TIMBER CARRIER OR LUG HOOK HANDLES

Fig 1419

| Description | Maple | | | Hickory | | | | |
|---|---|---|---|---|---|---|---|---|
| Number | 770 | 771 | 772 | 741 | 742 | 729 | 730 | 731 |
| Length, feet | 4 | 4½ | 5 | 5 | 6 | 4 | 4½ | 5 |
| Diameter, inches | 2½ | 2½ | 2½ | 3 | 3 | 2½ | 2½ | 2¾ |
| Price, per dozen | 4.00 | 4 50 | 5 00 | 7 00 | 8 00 | 6 00 | 6 80 | 7 60 |

## WEIGHT OF COMPLETE LOG CHAINS—Nos. 110 and 120

| Length, feet | 10 | 12 | 14 | 15 | 16 | 18 | 20 | 22 | 24 |
|---|---|---|---|---|---|---|---|---|---|
| Weight, inch, pounds | 7½ | 9 | 10½ | 11¼ | 12 | 13½ | 15 | 16½ | 18 |
| " 5/16 " " | 12 | 14 | 16 | 17 | 18 | 20 | 22 | 24 | 26 |
| " 3/8 " " | 16½ | 19½ | 22½ | 24 | 25½ | 28½ | 31½ | 34½ | 37½ |
| " 7/16 " " | 23 | 27 | 31 | 33 | 35 | 39 | 43 | 47 | 51 |
| " 1/2 " " | 30 | 44 | 49 | 51½ | 54 | 59 | 64 | 69 | 74 |
| " 9/16 " " | 48 | 56 | 64 | 68 | 72 | 80 | 88 | 96 | 104 |

# LUMBERING TOOLS

## PIKE POLES

WITH CURVED PIKE AND HOOK

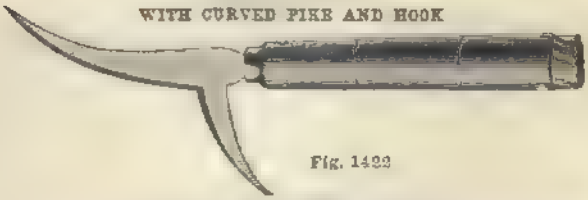


Fig. 1422

WITH STRAIGHT PIKE AND HOOK

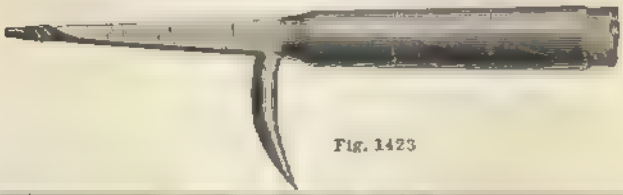


Fig. 1423

| Number, Curved pike | [illegible] | [illegible] | [illegible] | 400 | 401 | 402 | 403 | 404 | 405 |
|---|---|---|---|---|---|---|---|---|---|
| " Straight pike | [illegible] | [illegible] | [illegible] | 406 | 407 | 408 | 409 | 410 | 411 |
| Length of pole, feet | 4½ | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| Price, per dozen | 17.50 | 18.50 | 20.00 | 21.00 | 23.00 | 23.50 | 35.00 | 45.00 | 60.00 |

## PIKE POLES WITH PIKE ONLY

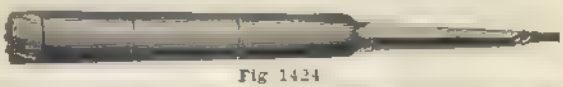


Fig. 1424

| Number | [illegible] | 356 | [illegible] | [illegible] | 414 | 415 | 416 | 417 |
|---|---|---|---|---|---|---|---|---|
| Length of pole, feet | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| Price, per dozen | [illegible] | 16.50 | 18.00 | 20.75 | [illegible] | 32.00 | 42.00 | 57.00 |

## PICKAROONS For Handling Railroad Ties, Pulp Wood, Etc.

Nos. 357 AND 418

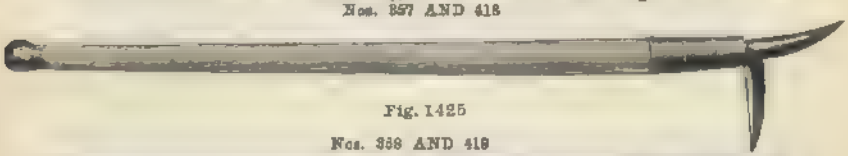


Fig. 1425

Nos. 338 AND 419

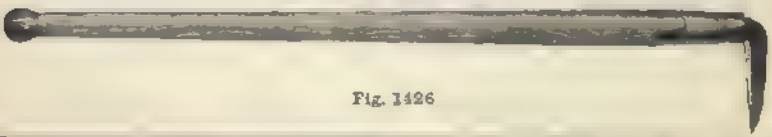


Fig. 1426

| Number | [illegible] | [illegible] | 338 | 419 |
|---|---|---|---|---|
| Length of handles | feet | 2 | 3 | 2 | 3 |
| Price | per dozen | [illegible] | 30.00 | 16.16 | 16.66 |

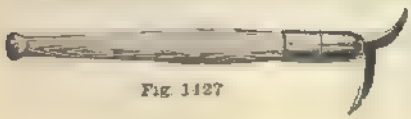


Fig. 1427

## LUMBER SORTER'S PICKAROONS

| Number | 429 |
|---|---|
| Length of handle | [illegible] inches 12 or 18 |
| Price, per dozen | 12.00 |

# LUMBERING TOOLS

## AXE HANDLE HOOKAROONS—With Steel Point Pick

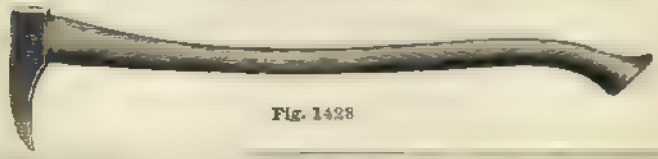


Fig. 1428

| Number | 421 | 422 |
|---|---|---|
| Kind of picks | Light | Heavy |
| Price per dozen | 13.60 | 16.45 |

## DOUBLE PICK HOOKAROONS
### With Steel Point Pick

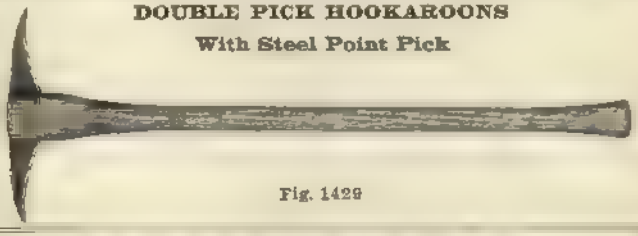


Fig. 1429

| Number | 423 |
|---|---|
| Price per dozen | 18.60 |

## TIMBER CARRIERS OR LUG HOOKS With Duckbill Hook

Fig. 1430

| Number | 425 | 426 | 427 | 428 | 429 | 762 | 763 | 764 |
|---|---|---|---|---|---|---|---|---|
| Diameter of handle ..inches | 2 1/2 | 2 1/2 | 2 1/2 | 3 | 3 | 2 1/2 | 2 1/2 | 2 1/2 |
| Length " " ....feet | 4 | 4 1/2 | 5 | 5 | 6 | 4 | 4 1/2 | 5 |
| Price ..per dozen | 26.71 | 27.37 | 28.03 | 28.69 | 31.30 | 29.75 | 30.50 | 31.20 |

Nos. 425 to 429 have maple handles, Nos. 762 to 764 have hickory handles.

## TIMBER CARRIERS OR LUG HOOKS—With Chisel Point Hook

| Number | 488 | 489 | 490 | 491 | 765 | 766 | 767 | 768 |
|---|---|---|---|---|---|---|---|---|
| Diameter of handle ..... inches | 2 1/2 | 2 1/2 | 2 1/2 | 3 | 3 | 2 1/2 | 2 1/2 | 2 1/2 |
| Length " " .....feet | 4 | 4 1/2 | 5 | 5 | 6 | 4 | 4 1/2 | 5 |
| Price ..... per dozen | 25.00 | 25.65 | 26.16 | 28.80 | 28.70 | 28.00 | 28.70 | 29.35 |

Nos. 488 to 491 have maple handles, Nos. 765 to 768 have hickory handles.

The above carries a w[illegible] grapple anything from 3 to [illegible] inches, and are fitted with swive[illegible] to permit carrying timber through narrow passageways.

# LUMBERING TOOLS

EYE DOG RAFTING DOGS RING DOG

Fig. 1474

Fig. 1475

## EYE DOGS

| Number | | 396 | 397 | 398 | 399 |
|---|---|---|---|---|---|
| Size | inches | ¼ x ½ | ½ x ¾ | ⅝ x ⅞ | ¾ x 1 |
| " Eye | " | 1 | 1½ | 1¾ | 1½ |
| Price | per hundred | 12.00 | 14.00 | 18.00 | 25.00 |

## RING DOGS

| Number | | 643 | 644 | 645 |
|---|---|---|---|---|
| Size | inches | ¾ | ⅞ | 1 |
| " Eye | " | 2 | 2½ | 3 |
| Price | per hundred | 18.00 | 21.00 | 24.00 |

CHAIN RAFTING DOG LOGGING DOG

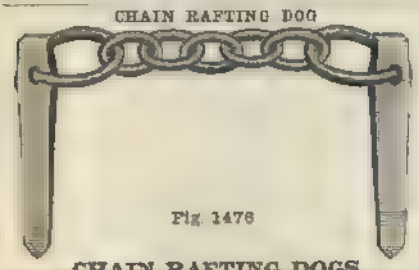


Fig. 1476

Fig. 1477

## CHAIN RAFTING DOGS

| Number | | 642 |
|---|---|---|
| Size | inches | ¾ x 2 |
| Price, with 5 links of chain | per 100 | 25.00 |

## LOGGING DOGS

| Number | | 638 | 728 |
|---|---|---|---|
| Size | inches | ¾ x 2 | ¾ x 2 |
| Price, with 3 in ring | per doz. | 30.00 | |
| " Without " | " | | 26.50 |

## GOODYEAR LOAD BINDERS

OPEN

Fig. 1478

CLOSED

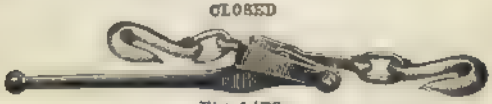


Fig. 1479

Price [illegible]

Goodyear load binders fit any chain from ¼ to ½-inch and are for binding timber, logs, pipe, boilers, etc., or any load that requires binding with a chain.

To operate place each of the grab hooks over a link of the chain and pull the lever down, this takes up the slack and firmly binds the load. When the lever is pulled down it takes up a slack of 4½ inches.

The handle clevis and hooks are made of malleable iron.

# LUMBERING TOOLS

## CORNER BIND HOOKS

PLAIN

Fig. 1480

WITH RING

Fig. 1481

| | | |
|---|---|---|
| Price, plain, 1¼ x ⅜-inch flat steel | per dozen | 5.50 |
| " With ring, 1¼ x ⅜-inch flat steel | " | 7.00 |

## CHAIN HOOKS

GRAB HOOK

Fig. 1482

ROUND HOOK

Fig. 1483

## GRAB HOOKS

| Number | 601 | 602 | 603 | 604 | 605 | 606 | 607 |
|---|---|---|---|---|---|---|---|
| For size chain ... inches | ¼ | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 |
| Price ... per hundred | 10.00 | 13.00 | 18.30 | 22.50 | 31.70 | 50.00 | 66.50 |

## ROUND HOOKS

| Number | 608 | 609 | 610 | 611 | 612 | 613 | 614 |
|---|---|---|---|---|---|---|---|
| For size chain ... inches | ¼ | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 |
| Price ... per hundred | 10.00 | 13.00 | 18.30 | 22.50 | 31.70 | 50.00 | 66.50 |

## STEEL SAW WEDGES

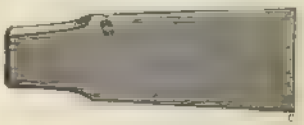


Fig. 1484

| | | |
|---|---|---|
| Price, assorted, 1½ to 3 pounds | per pound | 4 |

# LUMBERING TOOLS

## SKIDDING TONGS—With Heavy Upset Points

WITH PLAIN SWIVEL RING AND ROUND HOOK

WITH BLIND SWIVEL AND GRAB HOOK

WITH RINGS ONLY

Fig. 1431 Fig. 1432 Fig. 1433

### WITH PLAIN SWIVEL RING AND ROUND HOOK

| Number | 499 | 500 | 501 | 502 | 503 |
|---|---|---|---|---|---|
| Octagon steel.....inches | ⅞ | 1 | 1⅛ | 1¼ | .. |
| Flat steel.....“ | .. | .. | .. | .. | 1¼x⅝ |
| Opens.....“ | 21 | 24 | 32 | 36 | 32 |
| Price.....per dozen | 63 [illegible] | [illegible] | 78 | 94 | 74 78 95 |

Tongs with grab hook [illegible] each

### WITH BLIND SWIVEL AND GRAB HOOK

| Number | 501 | 502 | 506 | 507 |
|---|---|---|---|---|
| Octagon steel.....inches | 1 | 1⅛ | ¼ | |
| Flat steel.....“ | .. | .. | .. | 1¼x⅝ |
| Opens.....“ | 24 | 32 | 36 | 32 |
| Price.....per dozen | 78 35 | 86 40 | 102 00 | 80 00 |

### WITH RINGS ONLY

| Number | 548 | 508 | 509 | 510 | 511 |
|---|---|---|---|---|---|
| Octagon steel.....inches | ⅞ | 1 | 1⅛ | 1¼ | .. |
| Flat steel.....“ | .. | .. | .. | .. | 1¼x⅝ |
| Opens.....“ | 21 | 24 | 32 | 36 | 32 |
| Price.....per dozen | 59.20 | 67.11 | 75 00 | 90 80 | 75 00 |

# LUMBERING TOOLS

## GIANT SKIDDING TONGS

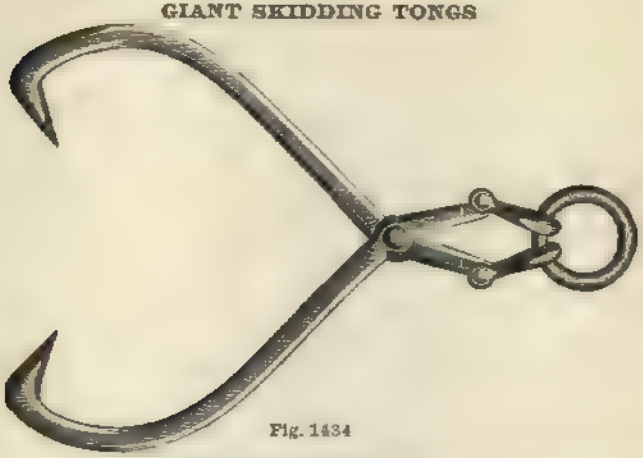


Fig. 1434

## OCTAGON STEEL TONGS

| Number | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size, steel, inches | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 |
| Opens, " | 16 | 18 | 20 | 24 | 26 | 28 | 30 | 32 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| Weight, pounds | 39 | 40 | 42 | 43 | 44 | 44 | 45 | 45 | 48 | 51 | 54 | 57 | 60 | 63 | 66 |
| Price, per pair | 11.60 | 11.70 | 11.85 | 12.10 | 12.25 | 12.40 | 12.50 | 12.60 | 12.75 | 13.00 | 13.25 | 13.50 | 13.75 | 14.00 | 14.25 |

| Number | 794 | 795 | 796 | 797 | 798 | 799 | 800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size, steel, inches | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/4 |
| Opens, " | 20 | 24 | 26 | 28 | 30 | 32 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 20 |
| Weight, pounds | 47 | 50 | 51 | 52 | 54 | 55 | 57 | 60 | 65 | 70 | 55 | 57 | 60 | 63 | 60 |
| Price, per pair | 13.55 | 13.90 | 15.25 | 15.40 | 15.60 | 15.80 | 16.00 | 16.25 | 17.50 | 18.75 | 20.00 | 21.25 | 22.50 | 23.75 | 16.85 |

| Number | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 820 | 821 | 822 | 823 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size, steel, inches | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 |
| Opens, " | 24 | 26 | 28 | 30 | 32 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 16 |
| Weight, pounds | 62 | 63 | 64 | 66 | 67 | 73 | 75 | 80 | 85 | 91 | 98 | 104 | 110 | 116 | 57 |
| Price, per pair | 17.50 | 17.75 | 18.00 | 18.25 | 18.75 | 20.00 | 21.25 | 22.50 | 23.75 | 25.00 | 27.50 | 30.00 | 32.50 | 35.00 | 18.80 |

| Number | 824 | 825 | 826 | 827 | 828 | 829 | 830 | 831 | 832 | 833 | 834 | 835 | 836 | 837 | 838 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size, steel, inches | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 |
| Opens, " | 18 | 20 | 24 | 26 | 28 | 30 | 32 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 |
| Weight, pounds | 59 | 61 | 65 | 67 | 69 | 71 | 73 | 77 | 83 | 89 | 95 | 101 | 107 | 113 | 119 |
| Price, per pair | 20.10 | 20.35 | 20.60 | 20.85 | 21.10 | 21.35 | 21.60 | 22.10 | 23.75 | 25.40 | 27.50 | 30.00 | 32.50 | 35.00 | 37.50 |

| Number | 837 | 838 | 839 | 840 | 841 | 842 | 843 | 844 | 845 | 846 | 847 | 848 | 849 | 850 | 851 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size, steel, inches | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Opens, " | 12 | 16 | 18 | 20 | 24 | 26 | 28 | 30 | 32 | 36 | 42 | 48 | 54 | 60 | 66 |
| Weight, pounds | 71 | 71 | 73 | 75 | 79 | 81 | 83 | 85 | 87 | 91 | 97 | 101 | 111 | 121 | 131 |
| Price, per pair | 35.05 | 23.10 | 23.70 | 24.10 | 24.50 | 24.80 | 25.25 | 25.65 | 26.05 | 26.35 | 27.50 | 29.00 | 31.00 | 34.20 | 37.40 |

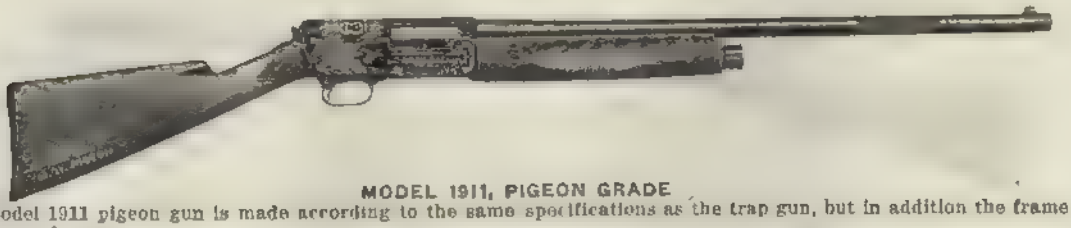
## FLAT STEEL TONGS

| Number | 538 | 539 | 540 | 541 | 542 | 543 |
|---|---|---|---|---|---|---|
| Size, steel, inches | 2 x 3/4 | 2 x 3/4 | 2 x 3/4 | 2 x 3/4 | 2 x 3/4 | 2 x 3/4 |
| Opens, " | 32 | 36 | 42 | 48 | 54 | 60 |
| Weight, pounds | 40 | 42 | 45 | 49 | 52 | 55 |
| Price, per pair | 12.50 | 13.15 | 14.40 | 15.00 | 16.25 | 17.50 |

Giant skidding tongs are made to order only.

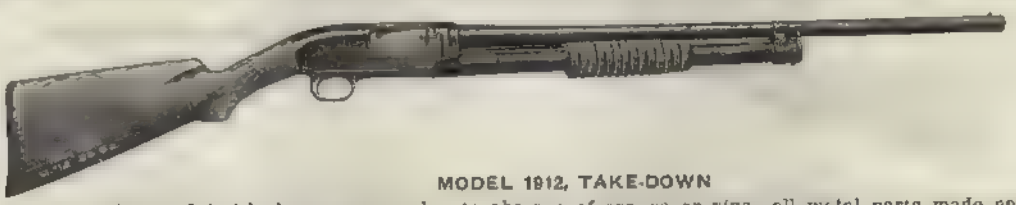
# REPEATING SHOT GUNS

## WINCHESTER



### MODEL 1911, PIGEON GRADE

| | | Each |
|---|---|---|
| *No. S9WP | The model 1911 pigeon gun is made according to the same specifications as the trap gun, but in addition the frame is elaborately engraved | $150.00 $200.00 |
| *No. S9WPEB | With extra 26-inch barrel, cylinder bored, otherwise same as No. S9WP | 175 50 234 00 |
| *No. S9WPFB | With extra 26-inch barrel; cylinder bored; including receiver and action, otherwise same as No. S9WP | 270 50 361.00 |



### MODEL 1912, TAKE-DOWN

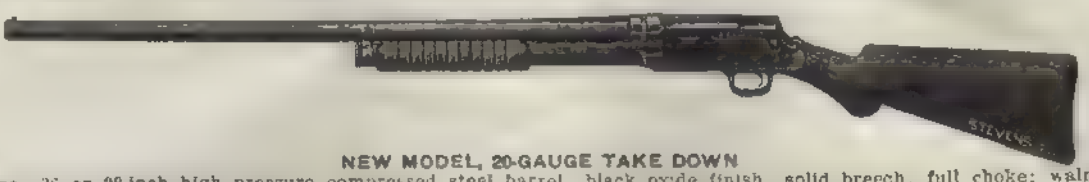
Notably fine proportions and unusual finished appearance, due to absence of screws or pins, all metal parts made entirely of nickel steel; receiver is matted along line of sight to facilitate aiming; stock made with full comb, has solid breech and cross-bolt trigger lock; easily taken apart; remarkably smooth and easy action.

| | | Each |
|---|---|---|
| No. S5WH12 | 12-gauge, 30-inch nickeled steel barrel; plain walnut pistol grip stock and action slide handle; length of stock 13¾ inches; drop at comb 1½ inches, drop at heel 2 ½ inches, rubber butt plate; weight 6½ lbs | $30 00 $40 50 |
| No. S5WHM12 | 12-gauge, 30-inch barrel; modified choke; otherwise same as No. S5WH12 | 30 00 40 50 |
| No. S5WHMR12 | 12-gauge; 30-inch barrel matted extension rib, otherwise same as No. S5WH12 | 35 00 47 26 |
| No. S5WHEB12 | 12-gauge, 30-inch, with an additional 26-inch cylinder bored, interchangeable barrel, otherwise same as No. S5WH12 | $46 50 62.80 |
| No. S5WH16 | 16-gauge, 26-inch nickel steel barrel, plain walnut pistol grip stock and action slide handle, length of stock 13¾ inches; drop at comb 1½ inches, drop at heel 2⅛ inches, rubber butt plate, weight 6 lbs | $30 00 40 50 |
| No. S5WH20 | 20-gauge, 25-inch barrel, otherwise same as No. S5WH16 | 30 00 40 50 |
| No. S5WHM20 | 20-gauge; 25-inch barrel, modified choke, otherwise same as No. S5WH20 | 30 00 40 50 |
| Interchangeable barrel complete, extra | | 16.50 22.30 |
| Raised matted rib, extra | | 5.00 6.76 |

## STEVENS REPEATING

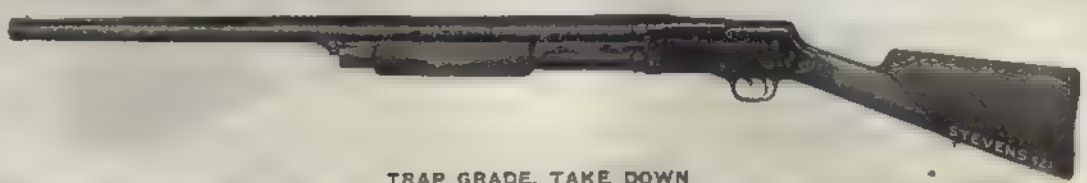
### STANDARD GRADE HAMMERLESS TAKE DOWN

| | | Each |
|---|---|---|
| No. S520 | 12-gauge, 28, 30 and 32-inch compressed forged steel barrel; full choke bored, drop forged receiver, black oxide finish; walnut pistol grip stock and slide handle, length of stock 13¾ inches, drop at comb 1⅞ inches, drop at heel 2⅝ inches; hard rubber butt plate, six shots, weight 7¾ lbs | $27 00 $36 00 |
| No. S520M | 12-gauge, 30-inch barrel, modified choke, otherwise same as No. S520 | 27 00 36 00 |
| No. S520C | 12-gauge, 26-inch barrel, cylinder bore, otherwise same as No. S520 | 27 00 36 00 |
| No. S521 | 12-gauge, 30-inch barrel with full matted rib, otherwise same as No. S520 | 33 00 |



### NEW MODEL, 20-GAUGE TAKE DOWN

| | | Each |
|---|---|---|
| No. S200S | 20-gauge, 26 or 28-inch high pressure compressed steel barrel, black oxide finish, solid breech, full choke; walnut stock and fore-arm, side ejection, pistol grip, drop forged receiver with black oxide finish, hard rubber butt plate; length of stock 13½ inches, drop 2½ inches, six shots, weight 6½ lbs | $27 50 $36 00 |



### TRAP GRADE, TAKE DOWN

| | | Each |
|---|---|---|
| No. S522 | 12-gauge, 30-inch compressed forged steel barrel, full choke bored, fitted with hollow matted rib, drop forged receiver, black oxide finish, fancy walnut stock and slide handle checked; action, Browning's patent hammerless, visible block; safety firing pin; rubber butt plate; weight 7¾ lbs | $40.00 $60.00 |

Packed, all above one in cardboard box

NOTE—Goods marked thus (*) are for factory shipment only.

# REPEATING SHOT GUNS

## MARLIN TAKE-DOWN

### MODEL 30, STANDARD GAUGE

No. S30A—16-gauge 28-inch special rolled blued steel barrel, full choke bored, specially bored for smokeless or black powders and proved with excessive loads, blued frame and trimmings, walnut stock and fore-arm, length of stock 13½ inches; drop 2½ inches; pistol grip; rubber butt plate; six shots; weight 6¼ lbs. ..... $21.00 $36.00

### MODEL 24

The take down feature is the improved take down construction that does away with the fore-arm slide stop slide screw in band, fore-arm screws, escutcheons and other small parts, and is a very simple, quick and most effective take down, you can hold the trigger and shoot the gun just as fast as you can work the action, and still be fully protected against premature explosion and hang fires

Each

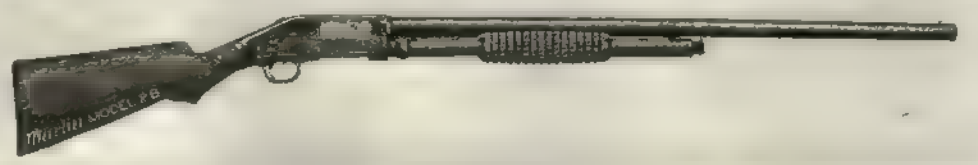
No. S24—12 gauge, 30-inch special rolled blued steel barrel, full choke bored, specially bored for smokeless or black powders and proved with excessive loads chambered so that 2¾ or 2⅝ inch shells may be used frames and action parts are of best quality steel cut down from solid drop forgings to insure greatest possible strength frames have blued finish, fine straight-grained American black walnut stock and fore-arm, handsomely shaped and finished, length of stock 13½ inches, drop 2½ inches, fore-arm is reinforced inside with a steel core and on the ends by metal ferrules; pistol grip, matted receiver; hard rubber butt plate, six shots; weight 7¾ lbs. ..... $21.60 $36.00

### TRAP GRADE

The take down feature is the improved take down construction that does away with the fore-arm slide stop, slide screw in band, fore-arm screws escutcheons and other small parts, and is a very simple, quick and most effective take down, you can hold the trigger and shoot the gun just as fast as you can work the action, and still be fully protected against premature explosion and hang fires.

Each

No. S25—12 gauge, 30-inch special smokeless steel barrel full choke bored specially built and bored for trap loads chambered so that 2¾ or 2⅝ inch shells may be used, frames are finest quality gun frame steel, cut from solid drop forging, frames and breech bolts are blued finish, butt stocks and forearms are Circassian walnut with London oil finish, and fine hand checking regular butt stocks 14 inches long, with 1⅝ inch drop at comb and 1½ inch drop at heel, hard rubber butt plates extra large, giving a heavier and more convenient stock for trap work; six shots; weight 7¾ lbs. ..... $35 00 $60.00



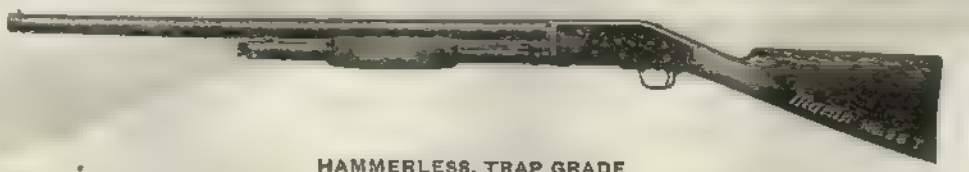

### HAMMERLESS

Each

No. S28—12 gauge; 30-inch rolled blued steel barrel full choke bored, matted top of barrel, walnut stock and fore-arm; length of stock 13½ inches, drop of stock 2½ inches at heel, 1½ inches at comb; rubber butt plate, take down feature same as on Marlin Model 24, six shots; weight 7¾ lbs. ..... $22.60 $38 00

No. S31M 16 gauge 28-inch special rolled steel barrel; full choke bored; matted top of barrel, fine straight-grained black walnut stock and fore-arm, length of stock 13½ inches, drop of stock 2½ inches at heel 1⅝ inches at comb rubber butt plate, six shots; weight 6¾ lbs ..... 40 50

No. S32M 20 gauge 25 and 28 inch special rolled steel barrel, full choke bored matted top of barrel; walnut stock and fore-arm, length of stock 13½ inches, drop of stock 2⅛ inches at heel, 1 inches at comb, rubber butt plate five shots weight 5⅞ lbs ..... 40 50




### HAMMERLESS, TRAP GRADE

Each

No. S28TS—12 gauge; 30-inch rolled steel barrel, full choke bored, matted top of barrel, walnut stock and fore-arm, length of stock 14 inches; drop of stock 2 inches at heel, 1⅝ inches at comb; rubber butt plate, take down feature same as on Marlin Model 24; six shots; weight 8 lbs. ..... $44 20

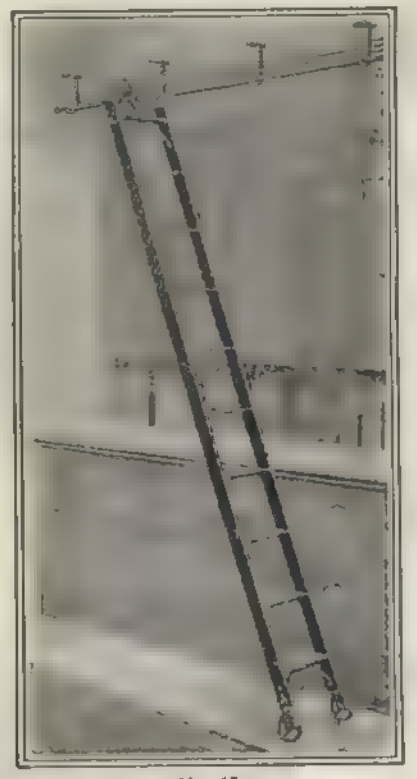
Packed, all above, one in cardboard box

# *THE MILBRADT ROLLING STORE LADDERS

MADE TO ORDER ONLY

No. 1

No. 2



No 15

The Milbradt rolling step ladders are the strongest, neatest and easiest running ladders on the market. They are made to order only, of shape and length necessary to fit shelving, of good oak lumber, with best possible workmanship, finished in first-class style, and shipped complete ready for use. Each system is guaranteed to be perfect and satisfactory in every respect. Besides the ladders here shown, they are made in various other styles to suit all kinds of shelving

### BENT LADDER

Runs on steel track which is fastened to shelving near the top; has rubber rollers attached to the lower end that run against the edge of base shelf. This ladder is the best for all around purposes where shelving is reasonably strong

Each

No. 1—Width 17¼ inches; 3-inch side pieces; 3½-inch steps; 9-inch top shelf complete with fixtures; average shipping weight 50 lbs.. . $22 00

Foot

No. 1R—Regular steel track; complete with brackets; weight per foot 1 lb..$ 0.40

No. 1ES—Extra strong, steel track; complete with brackets; weight per foot 1½ lbs. ..... ..... ..... . 50

### BENT LADDER

Intended for shelving that is not very strong, as most of the weight of the ladder and operator rests on the floor. This ladder runs on a hardwood track fastened to shelving near the top to guide it and has attached at the bottom, cushion-tired wheels that run on the floor, but NO TRACK IS USED ON THE FLOOR.

Each

No. 2—Width 17¼ inches; 3-inch side pieces; 2½-inch steps; 9-inch top shelf; complete with fixtures; average shipping weight 50 lbs.....$22.00

Foot

No. 2WT—Hardwood track for No. 2; complete with filler strip and screws; weight per foot 2 lbs.....$ 0.30

### TROLLEY LADDER

Has a suitable fixture with wheels at the top that run on a track fastened to ceiling. It also has attached at the bottom, cushion-tired wheels that run on the floor. This ladder is very strongly built and is specially adapted for hardware stores or any place of business where heavy goods are handled.

Each

No. 15—Width 14 inches; 4-inch side pieces; 5-inch steps; complete with fixtures; average shipping weight 60 lbs . .... ... . .....$20 00

Foot

No. 15ST—Steel trolley track, complete with brackets and lag screws; weight per foot 1½ lbs.....$ 0.40

### HOW TO ORDER LADDERS

In ordering ladders Nos. 1 and 2 give the exact height from floor to top of base shelf; the exact width or projection of the base shelf; and then the exact height from the top of base shelf to the top of shelf to which track is to be fastened; the track should be fastened to a shelf that is about three feet down from the top.

In ordering trolley ladder No. 15 it is only necessary to give the exact height from floor to ceiling and the exact length of each line of track wanted.

### HOW TO ORDER STEEL TRACK

If the track is to be longer than 18 feet, two or more lengths are joined together, and as joints ought to meet over brackets, it is important that measurements be sent us as follows: First, the entire length of each line of shelving; second, the measure from one end of shelving to the center of an upright that is nearest to but inside of 18 feet; then, the measure from the center of that upright to the center of the next upright that is nearest to but inside of 18 feet and so on to the other side of shelving. For regular steel tracks the brackets cannot be more than 4 feet apart, where uprights to which brackets are fastened are more than 4 feet apart it is only necessary to use extra strong steel track.

To order wood track for ladder No. 2 it is only necessary to state the number of feet required.

NOTE—Goods marked thus (*) are for factory shipment only.

# Fine Costumers and Umbrella Stands

**Costumer.**
Made of selected solid quarter-sawed Oak Golden Oak Fumed or Early English finish. Height, 6 feet 4 inches. Metal hooks. Weight crated about 16 lbs. Also made in imitation mahogany.

| No | Each |
|---|---|
| **D-872** Oak | $8.80 |
| **D-872M** Imitation Mahogany | 8.80 |

**Costumer.**
Made of selected solid quarter-sawed Oak, Golden, Fumed or Early English Oak finish. Height, 5 feet 5 inches. Metal hooks. Weight crated, about 28 lbs. Also made in imitation mahogany.

| No | Each |
|---|---|
| **D-832** Oak | $7.85 |
| **D-832M** Imitation Mahogany | 7.85 |

**Costumer.**
Made of selected solid quarter-sawed Oak, Golden, Fumed or Early English Oak finish. Height 5 feet 6 inches. Metal hooks. Weight, about 30 lbs. Also made in imitation mahogany.

| No | Each |
|---|---|
| **D-462** Oak | $6.25 |
| **D-462M** Imitation Mahogany | 6.25 |

**Costumer.**
Made of selected solid quarter-sawed Oak, Golden, Fumed or Early English Oak finish. Height, 5 feet 7 inches. Metal hooks. Also made in imitation mahogany and white enamel.

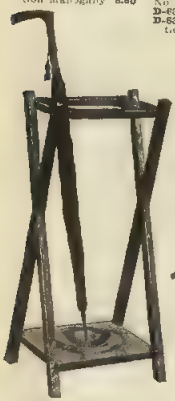
| No | Each |
|---|---|
| **D-62** Oak | $4.50 |
| **D-62M** Imitation Mahogany | 4.50 |
| **D-62E** White Enamel | 5.05 |

**Costumer.**
Made of selected solid quarter-sawed Oak, Golden, Fumed or Early English Oak finish. Height, 5 feet 5 inches. Metal hooks. Weight, about 15 lbs. Also made in imitation mahogany.

| No | Each |
|---|---|
| **D-302** Oak | $4.30 |
| **D-302M** Imitation mahogany | 4.80 |

**Costumer.**
Made of selected solid quarter-sawed Oak, Golden, Fumed or Early English Oak finish. Height 5 feet 4 inches. Wood hooks. Weight, about 8 lbs. Also made in imitation mahogany, white enameled or white maple.

| No | Each |
|---|---|
| **D-142** Oak | $3.95 |
| **D-142M** Imitation Mahogany | 3.95 |
| **D-142E** White Enameled | 4.50 |
| **D-142W** White Maple | 4.90 |



**Umbrella Stand.**
Made of solid quarter-sawed Oak, Golden, Fumed or Early English Oak finish. Height 28 inches. Weight, about 10 lbs.
No **D-502** Each .... $3.95

**Costumer and Umbrella Stand.**
Made of selected solid quarter-sawed Oak, Golden, Fumed or Early English Oak finish. Height, 6 feet 9 inches. Oak hooks. Weight, about 40 lbs.
No **D-172** Each ... $13.70

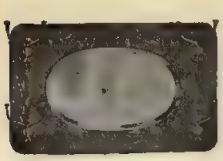
**Umbrella Stand.**
Made of selected solid quarter-sawed Oak, Golden, Fumed or Early English Oak finish. Height 28 inches. Weight, 12 lbs.
No. **D-512** Each ... $6.95

**Costumer and Umbrella Stand.**
Made of selected solid quarter-sawed Oak Golden, Fumed or Early English Oak finish. Height 5 feet 8 inches. Brass hooks. Weight, about 45 lbs.
No. **D-852** Each ... $16.50

**Umbrella Stand.**
Made of selected solid quarter-sawed Oak, Golden, Fumed or Early English Oak finish. Height 5 feet 4 inches. Weight, about 16 lbs.
No **D-422** Each .... $9.50

SHIPPED F. O. B. OUR SOUTHERN INDIANA FACTORY.

# Fine Hall Seats and Mirrors



Made of solid quarter-sawed Oak, Golden Oak, Gloss, Fumed or Early English finish. Height of seat [illegible] inches, width [illegible] inches, weight [illegible] lbs. with [illegible] 30 inch Bevel with 12x20 inch beveled mirrors. Metal hooks. Shipping weight 54 lbs.

| | |
|---|---|
| No. **A-15122** Seat. Each | **$22.90** |
| No. **A-15112** Frame. Each | **17.40** |
| No. **A-151231** Set complete | **41.30** |

Made of solid quarter-sawed Oak, Golden Oak, Gloss, Fumed or Early English finish. Height of seat, 18 inches, width, 32 inches, compartment under seat. Shipping weight, 80 lbs.; width of mirror frame, 48 inches, fitted with 16x20-inch beveled mirror and metal hooks. Shipping weight, 35 lbs.

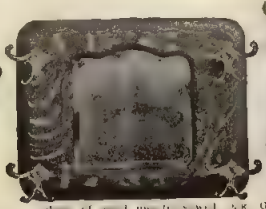
| | |
|---|---|
| No. **A-15142** Seat. Each | **$22.25** |
| No. **A-15132** Frame. Each | **18.50** |
| No. **A-151423** Set complete | **47.75** |

Made of solid quarter-sawed Oak, Golden Oak Polished, Fumed or Early English finish. Height of seat [illegible] inches, width 32 inches, compartment under seat. Shipping weight, 85 lbs. Frame width 24 inches fitted with 14x24 inch beveled mirrors, metal hooks. Shipping weight, 35 lbs.

| | |
|---|---|
| No. **A-15162** Seat. Each | **$34.75** |
| No. **A-15152** Frame. Each | **23.90** |
| No. **A-151625** Set complete | **58.65** |

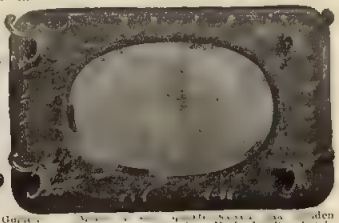
Made of solid quarter-sawed Oak, Golden Oak Polished, Fumed or Early English finish, fitted with 12x14-inch beveled mirror. Metal hooks. Shipping weight, 20 lbs.

No. **A-10002.** Each ..... **$9.75**



Made of solid quarter-sawed Oak, Golden Oak Polished, Fumed or Early English finish. Height 17 inches, width 22 inches, fitted with 12x12 inch beveled mirror. Metal hooks. Shipping weight, 20 lbs.

No. **A-10012.** Each ..... **$10.85**

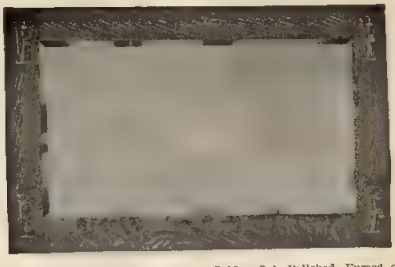


Made of solid quarter-sawed Oak, Golden Oak Polished, Fumed or Early English finish, fitted with 14x22-inch beveled mirror. Metal hooks. Shipping weight, 25 lbs.

No. **A-10022.** Each ..... **$14.10**

Made of solid quarter-sawed Oak, Golden Oak Polished, Fumed or Early English finish. Height 21 inches, width 56 inches. Fitted with 16x24-inch beveled mirror. Metal hooks. Shipping weight 47 lbs.

No. **A-14602** Each ..... **$19.50**



Made of solid quarter sawed Oak, Golden Oak Polished, Fumed or Early English finish. Height, 21 inches, width, 33 inches. Fitted with 16x [illegible] beveled mirrors. Metal hooks. Shipping weight, 50 lbs.

No. **A-14612** Each ..... **$21.70**

**SHIPPED F. O. B. OUR SOUTHERN INDIANA FACTORY.**

# Fine Smokers' Stands and Cabinets, Sewing Tables and Plate Racks

**SMOKERS' STAND**
Made of selected quarter sawed oak, golden early English, or fumed oak finish. Height 24 inches. Weight about 12 lbs.

| | |
|---|---|
| | Each |
| No. D4002 . . Complete with brass fixtures | $3.35 |
| No. D4002½ . . | $4.30 |

**SMOKERS' CABINET**
Made of selected quarter sawed oak, golden early English or fumed oak finish. Height 24 inches. Brass handle and legs. Weight about 30 lbs.

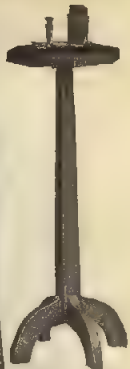
| | |
|---|---|
| No. D4222 each | $7.95 |
| Complete with brass fixtures | |
| No. D4222½ . . . . . each | $9.85 |

**SMOKERS' STAND**
Made of selected solid quarter sawed oak, golden early English or fumed oak finish. Height 28 inches. Weight 13 lbs.

| | |
|---|---|
| No. D4042 . each | $4.90 |
| Complete with brass fixtures. | |
| No. D4042½ . . each | $6.10 |

**SMOKERS' STAND**
Made of selected solid quarter sawed oak golden fumed, or early English oak finish. Height 30 inches. Brass handle and lock on cabinet. Weight about 35 lbs.

| | |
|---|---|
| No. D4332 . . . . each | $12.70 |
| Complete with brass fixtures | |
| No. D4332½ . . . . each | $14.70 |



**SMOKERS' STAND**
Made of selected solid quarter sawed oak, golden, early English, or fumed oak finish. Height 34 inches. Weight about 16 lbs. Also made in imitation mahogany

| | |
|---|---|
| | Each |
| No. D4082 Oak. | $3.75 |
| No. D4082M Imitation mahogany. | 3.75 |
| Complete with brass fixtures. | |
| No. D4082½ Oak | $4.90 |
| No. D4082½ Imitation mahogany. each | 4.90 |

**SEWING TABLE**
Made of solid quarter sawed oak, golden oak finish. Top 14x14 inches, open 14x28 inches. Wood knobs on drawers. Weight about 45 lbs. Also made in imitation mahogany

| | |
|---|---|
| No. D5772 Oak . . . . . each | $17.55 |
| No. D5772M Imitation mahogany each | 17.55 |

**SEWING TABLE**
Made of selected solid quarter sawed oak, golden oak finish Top 14x24 inches. Wood knobs on drawer. Weight about 46 lbs. Also made in imitation mahogany.

| | |
|---|---|
| No. D5812 Oak . . . . . each | $15.55 |
| No. D5812M Imitation mahogany, each | 15.55 |

**SEWING TABLE**
Made of selected solid quarter sawed oak, full one inch stock, golden oak finish top 17x17 inches, open 17x35 inches. Wood knobs on drawers. Weight about 50 lbs. Also made in imitation mahogany

| | |
|---|---|
| No. D5932 Oak . . . . . each | $23.25 |
| No. D5932M Imitation mahogany, each | 23.25 |

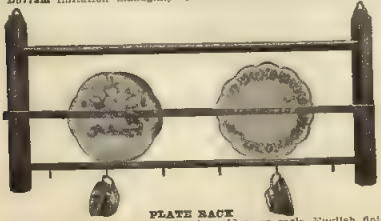


**PLATE RACK**
Made of solid quarter sawed oak, golden, or early English finish Size 36x18 inches. Brass trimmings Weight about 12 lbs.

| | |
|---|---|
| No. D782 . . . . . each | $3.90 |

**PLATE RACK**
Made of solid quarter sawed oak, golden, fumed, or early English oak finish Size 38x18 Brass trimmings Weight about 25 lbs.

| | |
|---|---|
| No. D812 . . . . . each | $6.90 |

SHIPPED F. O. B. OUR SOUTHERN INDIANA FACTORY

# MONKEY WRENCHES

TRIMO

Fig. 1322

AGRICULTURAL

Fig. 1323

## TRIMO WRENCHES

| Size ..... inches | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|
| Price, plain ..... per dozen | 9 00 | 10 00 | 12 00 | 14 00 | 24 00 | 30 00 | 36 00 |
| " Polished " | 11 50 | 12 50 | 15 00 | 19 00 | 30 00 | 36 00 | 42 00 |

## AGRICULTURAL WRENCHES

| Size ..... inches | 6 | 8 | 10 | 12 | 15 |
|---|---|---|---|---|---|
| Price, plain ..... per dozen | 10.00 | 12 00 | 14.00 | 17 00 | 24 00 |

KNIFE HANDLE

Fig. 1324

STEEL HANDLE

Fig. 1325

## KNIFE HANDLE WRENCHES

| Size ..... inches | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|
| Price, black ..... per dozen | 9 00 | 10.00 | 12. 00 | 14 00 | 24 00 | 30 00 | 36 00 |
| " Polished " | 11 50 | 12.50 | 15 00 | 19 00 | 30 00 | 36 00 | 42.00 |

## STEEL HANDLE WRENCHES

| Size ..... inches | 4 | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|---|
| Price ..... per dozen | 5 00 | 7 00 | 9 00 | 11 00 | 14 00 | 21 00 | 30 00 | 36 00 |

Steel handle wrenches 12, 15, 18 and 21 inches long are ball bearing.

## ALL STEEL KEY WRENCHES

Fig 1326

| Size ..... inches | 18 | 36 | 48 |
|---|---|---|---|
| Opens ..... inches | 5 | 6¼ | 9½ |
| Weight ..... pounds | 19 | 27 | 52 |
| Price, ..... each | 9.75 | 19.00 | 47.00 |

# PIPE WRENCHES

## TRIMO PIPE WRENCHES

STEEL HANDLE, 6 TO 48-INCH

Fig. 1327

NARROW JAW, 6 TO 10-INCH

Fig. 1328

EMERGENCY

Fig. 1329

### STEEL HANDLE AND NARROW JAW WRENCHES

| Length open | inches | 6 | 8 | 10 | 14 | 18 | 24 | 36 | 48 |
|---|---|---|---|---|---|---|---|---|---|
| Takes pipe | inches | $\frac{1}{8}$ to $\frac{3}{4}$ | $\frac{1}{8}$ to $\frac{3}{4}$ | $\frac{1}{8}$ to 1 | 1 to $1\frac{1}{2}$ | $1\frac{1}{4}$ to 2 | $1\frac{1}{4}$ to $2\frac{1}{2}$ | $2\frac{1}{2}$ to 3 | 1 to 5 |
| Price | each | 2 00 | 2 00 | 2 25 | 3 00 | 4 00 | 6 00 | 12 00 | 18 00 |
| " Movable jaws | " | 75 | 75 | 80 | 1 00 | 1 33 | 2 10 | 4 75 | 7 25 |
| " Nuts | " | 11 | 11 | 14 | 17 | 22 | 35 | 55 | 95 |
| " Insert jaws | " | 35 | 35 | 45 | 55 | 65 | 75 | 1 05 | 1 35 |
| " Frames | " | 35 | 35 | 40 | 50 | 55 | 80 | 1 30 | 1 50 |
| " Springs | " | 3 | 3 | 3 | 3 | 4 | 04 | 04 | 04 |
| " Frame pins | " | 03 | 3 | 04 | 04 | 04 | 04 | 05 | 5 |
| " Jaw pins | " | 03 | 3 | 4 | 04 | 04 | 4 | 05 | 5 |

Narrow jaw wrenches furnished in 6, 8 and 10-inch sizes only.

### EMERGENCY WRENCHES

| | | |
|---|---|---|
| Length | inches | 6 |
| Takes pipe | inches | Up to $1\frac{1}{2}$ |
| Price | each | 3 00 |

### COCHRAN PIPE WRENCHES

Fig. 1330

| Length open | inches | 6 | 8 | 10 | 11 | 18 | 24 | 36 |
|---|---|---|---|---|---|---|---|---|
| Takes pipe | inches | $\frac{1}{8}$ to $1\frac{1}{2}$ | $\frac{1}{8}$ to 3 | $\frac{1}{8}$ to 1 | $\frac{1}{8}$ to 1 | $1\frac{1}{4}$ to 2 | $1\frac{1}{4}$ to $2\frac{1}{2}$ | $2\frac{1}{2}$ to $3\frac{1}{2}$ |
| Price | each | 2 00 | 2 00 | 2 25 | 3 00 | 4 00 | 6 00 | 12.00 |
| " Movable jaws | " | 67 | 67 | 75 | 1 00 | 1 33 | 2 00 | 4.00 |
| " Knurled nuts | " | .20 | 20 | 28 | 35 | 42 | 55 | 65 |
| " Inserted jaws | " | 25 | 25 | 33 | 50 | 55 | 65 | 1 00 |
| " Rockers | " | 25 | 26 | 28 | .40 | .50 | 65 | 1 50 |
| " Springs | " | 12 | 12 | 14 | 7 | 21 | 25 | 40 |

# GOGGLES

## AUTOMOBILE, MOTORCYCLE AND ENGINEERS

THE GOGGLETTE

Per Dozen

**No. 160** The Goggle[illegible] Eye Shield made to [illegible] washed and dressed immediately, [illegible] Vermont [illegible] rubber. [illegible] Cushion at the [illegible] so that no dust can sift in; Has curved Lenses and Shallow eye cups which give a wide vision; White Lenses; one in an individual Leatherette Case; Weight each 5 ozs.. **$72.00**

CLEARSITE

Per Dozen

**No. 135** Has 2¼ inch Curved Lenses, giving an extra Wide Vision; Brass Nickel Plated Frame; Lined with Chenille; This Goggle fits the Face perfectly; One in a Carton; One Dozen in a Box; Weight per Dozen 3 lbs..... [illegible]

GOTHAM (SOFT RUBBER)

Per Dozen

**No. 145**—Made entirely of Pure Gum Red Rubber which fits close to the face and is soft; Has Curved Lenses; One in a Carton—One Doz. Cartons to a Box; Weight per Doz. 1⅜ lbs. **$8.80**

SOFT RUBBER, WITH EXTRA AMBER LENSES

Per Dozen

**No. 150**—Made of Pure Gum Red Rubber, which is soft and fits Close to the face; has Curved Lenses; also an Extra Pair of Amber Colored Lenses which can be easily Inserted; One in a Carton, One Dozen in a Box; Weight per Dozen 2 lbs.... [illegible]

CASEY JONES

Per Dozen

**No. 140**—Especially adapted for use by Engineers—has Aluminum Frame, lined with Grey Leather and Chanille; has Screw Cap for removing Lenses and Cleaning; Extra well Ventilated; One in a Carton; One Dozen in a Box; Weight per Dozen 2 lbs **$12.80**

SUNSHIELD

Per Dozen

**No. 130**—Brass Nickel Plated Frame, with Extension Shield to protect the Eyes from the Sun; Grain Leather Mask; One Dozen in a Carton; Weight per Dozen 1½ lbs... **$14.30**

Per Dozen

**No. 125**—Collapsible Cup, Grain Leather Mask, Unlined, Bound with Silk; Flat Lenses, especially adapted for Motorcycle Use; One Dozen in a Box; Weight per Doz. 1½ lbs..... **$10.60**

Per Dozen

**No. 120**—Brass Nickel Plated Cups; extra large Round Flat Lenses; Grain Leather Mask, Lined with Chanille; Ventilated Cups; One Dozen in a Box; Weight per Dozen 1¼ lbs..... **$4.40**

**No. 115**—Aluminum Ventilated Cups, with Black Leather Mask, Unlined; Curved Lenses; One dozen in a Box; Weight per Dozen 1¼ lbs..... **3.20**

Per Dozen

**No. 110**—Extra Large Nickel Plated Cups; Flat Lenses; Green Leather Mask Unlined; One Dozen in a Box; Weight per Dozen 1 lb..... **$1.80**

**No. 100**—Same as above with Plain White Lenses; One dozen in a Box; Weight per Dozen 1 lb..... **1.35**

# AUTOMOBILE LAP ROBES

*NORLEIGH DIAMOND

FANCY

Each

**No. 2500A**—Double Plush; Size 54x66 inches; Extra Heavy; Brown and White Grille Work in the Center; Richly Embellished with Beautiful Red Flowers and Green Leaves, with Corners Corresponding; Fancy Brown and White Border; a Robe of Rare Magnificence and Elegance; Wt. about 9½ lbs.. **$30 25**

FANCY

Each

**No. 1800A**—Double Plush; Size 54x72 inches; Fancy Floral Design; Rose Center with Leaves of Brown on a Brown Background; Barkwood Frame Interspread with Small Red Wild Flowers and Green Leaves; a Very Pliable and Warm Robe; Will Suit the most Critical; Weight about 9 lbs.... **$24.75**

FANCY

Each

**No. 1500A**—Double Plush; Size [illegible] inches; Black Back; Oblong with Fancy Center Artistically Decorated with Grecian Effect, Produced in Fancy Colors of Red, Green, Gray and White Persian Border in Shaded Brown and Yellow; New and Very Attractive; Weight about 6½ lbs. . . . **$18 70**

FANCY

Each

**No. R1200A**—Double Plush; Size 54x66 inches; Black Back; Brown Shaded Plush; Sunburst Effect; Rubber Sheet Interlining; Weight about 11 lbs. . . . .

PLAIN

Each

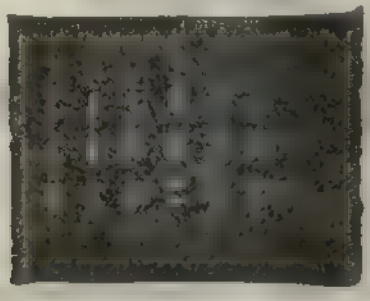
**No. R800A** Double Plush, Size 54x72 inches; Green Face, Black Back, Rubber Sheet Interlining; Weight about 10⅝ lbs. . . . . **$13.25**

PLAIN

Each

**No. RB650A** Single Plush, Size 54x72 inches, Green Face, Rubber Lined Back; Weight about 6½ lbs. . . . **$8 80**

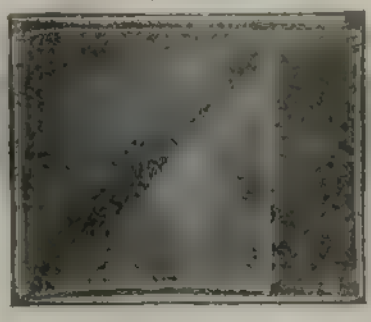
FANCY



Each

**No. 850A**—**All Wool**; Reversible Robe, Shaded Brown Mink Effect; Has a Fine Soft Finish, Bound with New Style Whipped Edge and Fringe, Size 60x [illegible] inches; New and Attractive; Warm and Weather Resisting; Weight about 5 lbs. . . . . **$14 50**

PLAIN



Each

**No. 500A**—Double Plush; Size 54x72 inches; Green Face, Black Back; Weight about 7½ lbs. . . . . **$9 90**

Loose

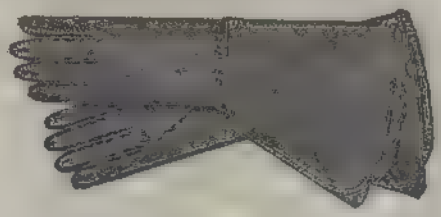
# AUTOMOBILE GLOVES AND MITTENS

We Have Limited Our Line of Automobile Gloves to a Few Patterns; but in these we have Selected Splendid Values and Popular Patterns. They will be Found Good Sellers and the Kind on which you can Build a Reputation for Good Gloves at Moderate Prices.

UNLINED GLOVE

Per Pair

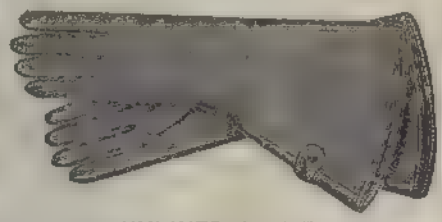
**No. 1—Black Horsehide,** Selected Grade; Diverted Seams and Reinforced in Crotch; Stiff Box Cuff 6 inches Long with Soft Gore, Reinforced with Canvas. **Adjustable Leather Wrist Strap** with Two Glove Fasteners, Unlined, Sizes 7½ to 9½..... **$5 00**



UNLINED GLOVE

Per Pair

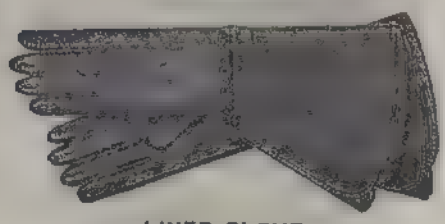
**No. 2—Russet Horsehide,** Selected Grade; Diverted Seams; Reinforced in Crotch; Stiff Box Cuff 5½ inches Long, Reinforced with Canvas, Soft Gore, **Adjustable Leather Wrist Strap,** with Two Glove Fasteners; Unlined; Sizes 7½ to 9½..... **$5 00**



UNLINED GLOVE

Per Pair

**No. 3—Black Horsehide;** Diverted Seams; Reinforced in Crotch; Stiff Box Cuff 6¼ inches Long with Full Length Soft Gore, Reinforced with Canvas, Has Leather Glove Fastener on Cuff, Unlined, Sizes 7½ to 9½ **$4 00**



LINED GLOVE

Per Pair

**No. 4—Black Horse Hide, Wool Lined;** Diverted Seams, Reinforced in the Crotch, Stiff Box Cuff 6½ inches Long; Lined and Edged with Canvas; Soft Leather Gore; Adjustable Wrist Strap with Two Glove Fasteners; Sizes 8½ to 10½ ..... **$4.50**

LINED MITTEN

Per Pair

**No. 5—Black Horse Hide, Wool Lined;** Diverted Seams; Reinforced in the Crotch; Stiff Box Cuff 6½ inches Long; Lined and Edged with Canvas; Soft Leather Gore; Adjustable Wrist Strap with Two Glove Fasteners, Sizes 8½ to 10½..... **$4.50**

LINED ONE FINGER MITTEN

Per Pair

**No. 6—Black Horse Hide, Wool Lined;** Diverted Seams; Reinforced in the Crotch; Stiff Box Cuff 6½ inches Long; Lined and Edged with Canvas; Soft Leather Gore; Adjustable Wrist Strap with Two Glove Fasteners; Sizes 8½ to 10½..... **$4.50**

When Ordering **Lined Gloves** always order one full size larger than you would order in an unlined Glove.

# MOTORCYCLE SADDLES

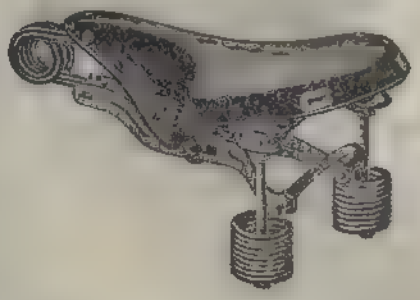
## TROXEL EAGLE BRAND

Each

**Eagle Motor 3**—Stamped Steel Frame Trusses, Black Enameled; Finest Oak Tanned Leather; Equipped with New Spring Action and Without Nose Coil, Giving a Low Saddle Position, the Universal Clamp Used on this Saddle Prevents Its Twisting or Turning, Length 13½ inches, Width 12½ inches, Weight 3¾ lbs. **$13 50**

Each

**Eagle Motor 2**—Stamped Steel Frame and Trusses, Black Enameled, Finest Oak Tanned Leather, Saddle is Supplied with No-Bump Spring Action and without Nose Coil, which Allows a Low Saddle Position, the Universal Clamp on this Saddle Prevents its Twisting or Turning, Length 11½ inches, Width 12½ inches, Weight 3½ lbs..... **$11.00**

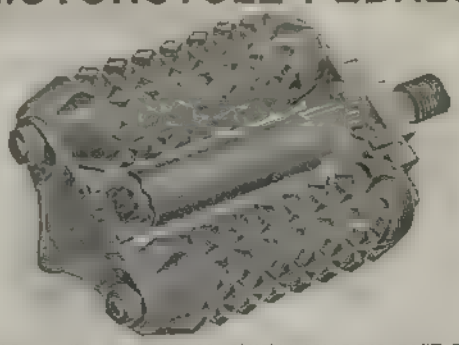


Each

**Motor No. 1** Stamped Steel Frame and Trusses Coil Springs Covered with the Universal Spring, all Enclosed in Black Enamel, English Russet Leather Top Carefully Selected; The Universal Clamp Used on this Saddle Avoids any Possibility of its Twisting or Turning on the Post, the Design Places the Rider in the Lowest Possible Position on the Motorcycle; Length of Seat 13½ inches, Length Over All 14¾ inches; Weight 6¾ lbs..... **$10.50**

"DIAMOND EDGE IS A QUALITY PLEDGE"

# MOTORCYCLE PEDALS



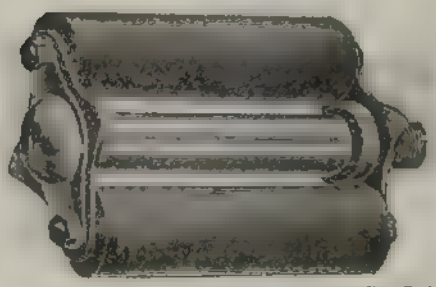
## QUICK REPAIR PEDAL WITH KNOCK OUT PIN

The object of this Knock Out Pin is to enable the Pedal to be taken apart for repairs without the necessity of putting it in a Press as the Pedal must be in the Crank when the Pin is knocked out. The Axle and Pin are always in place, and only a Wrench is required to Tighten or Loosen Nut which does the work. Per Pair

No. KO—Heavy Square Checkered Rubbers, 1 inch Square, Roller Bearings at each end, ½ inch Pin; No. 20 Thread; Dust Proof Cap; Nickel Plated Frame, Weight per Pair 2½ lbs. ..... $3 00

One Pair in a Box

No. 7—Extra Pins for above Pedals, Right or Left, Weight per Pair 10 ozs. ..... 50



Per Pair

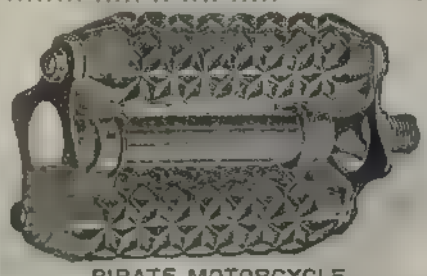
No. MR—Heavy Round Rubbers, 1 inch in Diameter, Ball Bearings at Both Ends, ½ inch Pin, No. 20 Thread, Dust Proof Caps; Nickel Plated Frame; Weight per Pair 2½ lbs. .. $3.00

One Pair in a Box

Per Pair

No. MS—Heavy Square Checkered Rubbers, 1 in. Square, Ball Bearings at Each End, ½ inch Pin, No. 20 Thread, Dust Proof Cap, Nickel Plated Frame; Weight per Pair 2½ lbs. ..... $3.50

One Pair in a Box



PIRATE MOTORCYCLE

Per Pair

No. P—Heavy Rubbers, 1 in in Diameter, 4 in Long, Ball Bearings at Each End; ½ inch Pin, No. 20 Thread; Nickel Plated Frame; Weight per Pair 2½ lbs. ..... $2.60

One Pair in a Box

No. 5—Extra Pins for Above Pedals; Weight per Pair 10 ozs.. .90

Loose

# PEDAL RUBBERS

STANDARD MOTOR CYCLE

Per Pair

No. 3—Heavy Rubbers, 1 in. in Diameter, 4 in Long, Ball Bearings at each End, ½ in Dia. No. 20 Thread, Nickel Plated Frame; Weight per Pair 2½ lbs. $3 95

One Pair in a Box

No. 4—Extra Pins for Above Pedals; Weight per Pair 10 ozs.. 80

Loose

Per Set of Four

No. MC4—Fits any make Motorcycle; Hard Black Rubber Length 3 inches; Thickness 1 inch Square ¾ inch Square Hole through Center..... $0.70

Six Sets in a Carton; Carton Weighs 4 lbs.

# MOTORCYCLE TOOL BOX

Each

No. B—Select Oak; Tanned Leather; Inside Dimensions: Width 3 in. Height 5¾ in. Length 12 in. Reinforced with Cold Rolled Steel Straps, Corners Riveted, This Box will Carry Tools and Stand the Hard Vibration of the Motorcycle and Hold its Original Shape; We Supply Clamps to fit any Size Tubing; Weight 1 lb. .. $2 75

Loose

# MOTORCYCLE SADDLE CLAMPS

TROXEL UNIVERSAL

Each

No. TM—Drop Forged Steel Clamp; Black Japanned; Polished Washers and Nuts; Adjustable to any Position; Weight each ½ lb $1 50

Loose

# MOTORCYCLE GRIPS

Per Pair

No. MCG—Black Flexible Rubber Moulded over Cotton Fabric; Woven Steel Reinforcement in Center Strengthens the Grip at its Weakest Point; Extra Heavy Lining of Cotton Fabric throughout; Length 8½ inches; Diameter of Hole 1 inch; Weight per Pair 1 lb..... $1.35

One Pair in a Box

*"DIAMOND EDGE IS A QUALITY PLEDGE"*

# MOTOR CYCLISTS' SUITS

No. MS750

**NOTE—Motor Cyclists' Uniforms consist of Coat and Trousers Only; Caps sold separately; not included in price of Uniforms.**

**Sizes—Coats 34, 36, 38, 40, 42, 44, 46 inches Chest Measure; Pants, Lengths 30 to 33 inches.**

These Uniforms, while primarily intended for the use of Motor Cyclists, will be found very serviceable in various other branches of Sport. They make excellent Riding Togs for Equestrians, and for Golfers, Hunters, Fishermen, Yachtsmen, Automobilists, Aviators and Motor Boat Operators wear they are unexcelled.

**Custom Tailor Made; Correct and Perfect Fitting; Quality and Workmanship of the Highest.**

Per Dozen Suits

**No. MS750**—Finest Quality English Double Whipcord, Olive Color; Average Weight per Dozen Suits 48 lbs..... **$185.20**

**Description**

**Coat**—Norfolk Style; Four Button Front; 2 inch Belt with Two Buttons; Two Patch Pockets with Flaps and Buttons; Close Fitting Storm Collar with Strap and Button.

**Trousers**—Fly Front; Two Side and One Watch Pocket, Two Hip Pockets with Straps and Buttons; Belt Loops; Adjusting Straps and Buckles at Hips; 2 inch Cuffs at Bottoms.

Per Dozen Suits

**No. MS500**—Finest Quality English Fustian, Olive Color; Average Weight Per Dozen Suits 45 lbs. **$99.00**

**Description**

**Coat**—English Style; Three Button Double Breasted; 2 inch Belt with Two Buttons; Three Patch Pockets with Flaps and Buttons; Dress Style Collar and Lapel.

**Trousers**—Fly Front; Two Side and One Watch Pocket; Two Hip Pockets with Flaps and Buttons; Belt Loops; Adjusting Straps and Buckles at Hips; 2 inch Cuffs at Bottoms.

No. MS500

All Coats have Large Horn Buttons. Belts Detachable. All Trousers have Buttons Sewed on Inside of Waist Band so Suspenders can be used in place of Belt if desired. All parts carefully made and well Sewed. Latest Styles in Designs.

No. MS400

Per Dozen Suits

**No. MS400**—Finest Quality Government Standard Khaki Cloth, Olive Tan Color; Average Weight per Doz. Suits 40 lbs. **$72.00**

**Description**

**Coat**—English Style; Three Button Double Breasted; 2 inch Belt with Two Buttons; Three Patch Pockets with Flaps and Buttons; Dress Style Collar and Lapel.

**Trousers**—Fly Front; Two Sides and One Watch Pocket, Two Hip Pockets with Flaps and Buttons; Belt Loops; Adjusting Straps and Buckles at Hips; 2 inch Cuffs at Bottoms.

Per Dozen Suits

**No. MS250**—Finest Quality Soft Suiting Cloth, Olive Color; Average Weight per Dozen Suits 35 lbs. $52.80

**Description**

**Coat**—American Outing Style; Three Button Single Breasted Front; Two Side Patch Pockets without Flaps, One Breast Pocket with Flap and Button; Dress Style Collar and Lapel.

**Trousers**—Fly Front, Two Side and One Watch Pocket; Two Hip Pockets with or Flaps, Belt Loops, Adjusting Straps and Buckles at Hips; Plain Bottoms.

Loose.

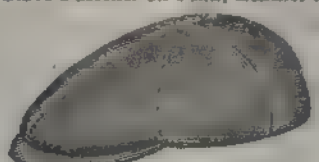
No. MS250

# MOTOR CYCLISTS' CAPS

**Sizes 6⅞, 7, 7⅛, 7¼ and 7⅜ inches.**

English Style, Glove Fastener on Peak; Leather Sweat Band.

| | Per Dozen |
|---|---|
| **No. MC750**—To Match No. MS750 Suit | **$12.10** |
| **No. MC500**—To Match No. MS500 Suit | **11.00** |



| | Per Dozen |
|---|---|
| **No. MC400**—To Match No. MS400 Suit | **$8.80** |
| **No. MC250**—To Match No. MS250 Suit | **7.70** |

**Average Weight per Dozen 6 lbs.**
Loose.

*"Diamond Edge is a Quality Pledge"*

# LEGGINS

## *NORLEIGH DIAMOND

**NOTE.—In Ordering Be Particular to Mention Sizes Wanted**

**Sizes Carried in Stock: Men's, 14, 15, 16, 17 and 18 inches**

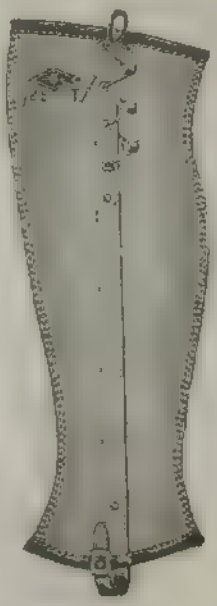
### THIGH

**Full Stock Chicago Box Leather; Grained; Black Color;** All Leather Bound Throughout; Double and Stitched Straps, with Black Japanned Buckles; Steel Spring to Knee; Assorted, Half Arctic Fasteners and Half Laced above Knee to the Dozen; all Linen Sewed and Reinforced.

Per Doz. Pairs

**No. 350BT $72 60**

Average Weight per Dozen Pairs 22 lbs.



**Genuine 15 Ounce Rolled Duck, Brown Color;** All Genuine Russet Leather Bound; Creased Edge Leather Straps, with Nickel Plated Buckles; Steel Spring to Knee; Assorted, Half Arctic Fasteners and Half Laced above Knee to the Dozen, all Linen Sewed and Reinforced.

Per Doz. Pairs

**No. 125T..... $28.40**

Average Weight per Dozen Pairs 14 lbs.

### KNEE

**Best Grade Split Cowhide; Hogskin Grained; Black Color;** Unbound; Double and Stitched Straps, with Black Japanned Buckles, Steel Spring at Side; no Glove Fasteners at Top; Extra Heavy, Well Sewed and Reinforced.

Per Doz. Pairs

**No. 150B.....$29 70**

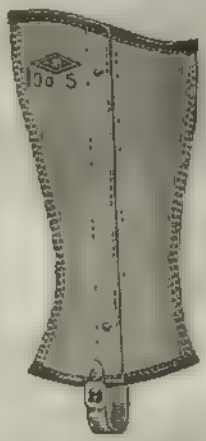
Average Weight per Dozen Pairs 13½ lbs.

**Finest Quality Saddle Seat Calf Skin, Russet Color;** All Bound with Russet Calf Skin; Double and Stitched Straps with Brass Steel Buckles, Steel Spring at Side; Nickel Plated Glove Fasteners at Top; Soft and Pliable

Per Doz. Pairs

**No. 400R.....$92 40**

Average Weight per Dozen Pairs 17 lbs.

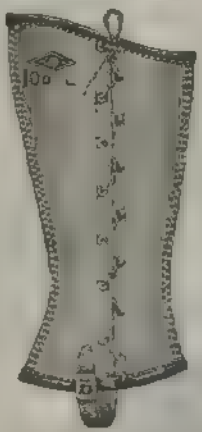


**Genuine 15 Ounce Roll Duck; Brown Color;** all Bound with Russet Sheepskin; Creased Edge Strap with Nickel Plated Buckles; Steel Spring at Side.

Per Doz. Pairs

**No. 100S..... $19 25**

Average Weight per Dozen Pairs 10½ lbs.



**Genuine 15 Ounce Roll Duck; Brown Color;** All Bound with Russet Sheepskin; Creased Edge Straps, with Nickel Plated Buckles; Laced at Side.

Per Doz. Pairs

**No. 100L..... $18 50**

Average Weight per Dozen Pairs 7½ lbs.

Per Doz. Pairs

**No. 50S—Standard 8½ oz., Single Filled Duck; Brown Color;** All Bound with Russet Imitation Leather; Creased Edge Straps, with Nickel Plated Buckles; Steel Spring at Side..... **$9 90**

Average Weight per Dozen Pairs 8¼ lbs.

Per Doz. Pairs

**No. 50L—Standard 8½ oz. Single Filled Duck; Brown Color;** All Bound with Russet Imitation Leather; Creased Edge Straps, with Nickel Plated Buckles; Laced at Side ... **$9 35**

Average Wt. per Doz. 4½ lbs.

Half Dozen Pairs in a Bundle

### ENGLISH PATTERN PUTTEES

**Full 6 ounce Selected Kip Leather;** Creased Edge, Chocolate Color, Molded to Fit Shape of Leg, ¾ inch Creased Strap; ½ inch Billet; Two Brass Buckles on Narrow Loops; Billet Strap and Loops Sewed on with Black Linen Thread and Reinforced with Coppered Steel Rivets.

Per Doz. Pairs

**No. 325P . .$72 60**

Average Weight per Dozen 15 lbs.

**15 Ounce Army Duck; Dark Brown Color;** Bound with Genuine Russet Leather; Made in Two Pieces; Molded and Shaped to Conform to Leg; ¾ inch Creased Edge Russet Strap; ½ inch Billet; Two XC Plate (Tinned) Buckles; Billet Strap and Loops Riveted on with Coppered Steel Rivets; Double Seams.

Per Doz. Pairs

**No. 175P $30**

Average Weight per Dozen Pairs 12½ lbs.

## TROUSER GUARDS

### * RUGBY

***"ORIGINATED BY US"***

These Guards are the best protection to Riders of fast Motorcycles. They are Light and Comfortable to Wear, fitting the Calf of the Leg snugly and absolutely preventing the Trousers being caught in the Mechanism.

Keeps the Trousers free from Oil and Grease. Also well adapted to the needs of Bicycle Riders as no danger of tearing the Trousers in the Chain when these Guards are worn—made with a Deep Projection on the Inside to come down over the Shoe.

BICYCLE AND MOTORCYCLE Each

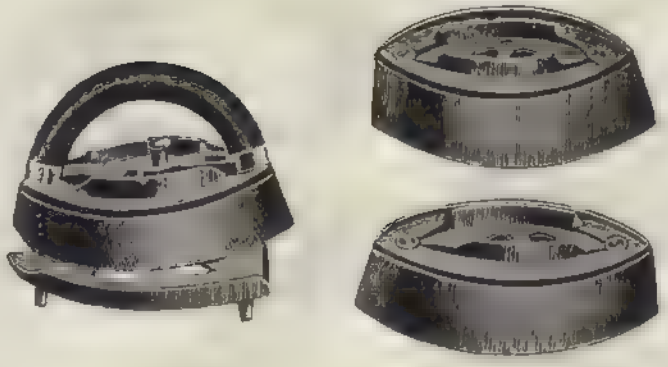
**No. 3C—Heavy Russet Harness Leather;** Unlined; Fancy Floral Stamped Border; Creased Edge; Three Fancy Brass Glove Fasteners with Black Enameled Heads; Height 8½ in. Wt. 8 ozs.... **$1.65**

**No. 4G—Medium Wt. Black Imitation Pig Skin;** Unlined; Bound with Black Leatherette; Three Black Japanned Steel Glove Fasteners; Height 8 in.; Wt. 6 ozs. **.80**

Loose.

*"DIAMOND EDGE IS A QUALITY PLEDGE"*

## SAD IRONS



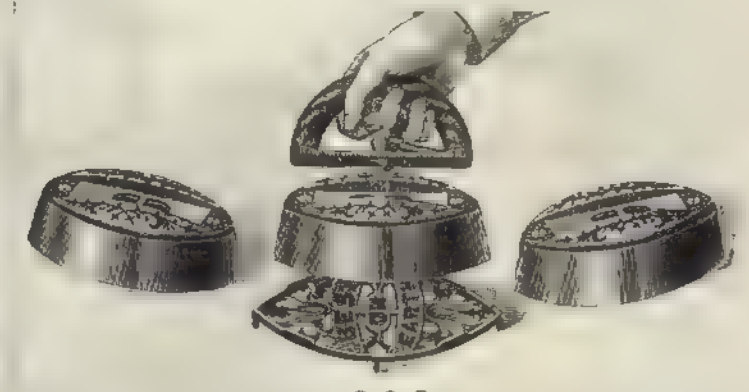
### MRS. POTTS

Nickel plated cast iron cores; in sets of three, one each 4¼, 5 and 5½-lb.; pointed at both ends; with ornamental cast iron stand.

Set

No. 500—Aluminum finished top; cast iron handle with hardwood grip; weight per set 14 lbs. ..... $ 1.24

Packed, six sets in case



### B. O. E.

Nickel plated cast iron cores; in sets of three, one each 4¼, 5 and 5½-lb.; pointed at both ends.

Set

No. BOE—Old copper finished top; nickel plated cast iron handle with hardwood grip; ornamental cast iron stand; weight per set 15¼ lbs. ..... $ 2 20

Packed, six sets in case.

### COMMON

Regular pattern; polished face; plain octagon handle.

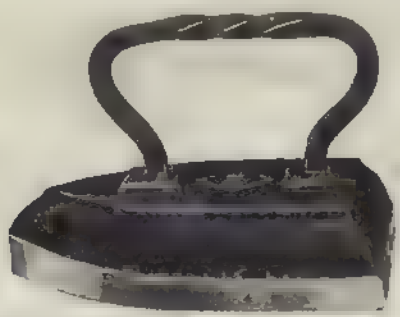
| Weight, lbs. | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|
| Pound | $0 07 | 07 | .07 | .07 | .07 |

## TAILOR IRONS

Black finished iron and twisted handle; polished face.

| Weight, lbs. | 12 | 14 | 16 | 18 | 20 | 22 |
|---|---|---|---|---|---|---|
| Size, inches | 2⅛x8½ | 2¾x8½ | 3x8¾ | 2⅝x9½ | 3⅛x9⅝ | 2¾x10 |
| Height, inches | 6¾ | 6¾ | 7 | 7⅛ | 7⅛ | 7¾ |
| Pound | $0 09½ | 09½ | 09½ | 09½ | 09½ | 09½ |

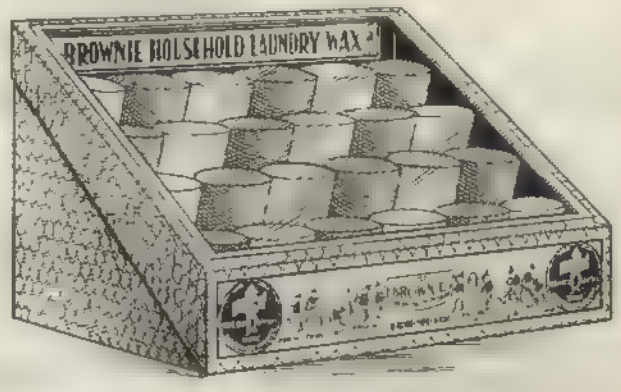
## PRESSING IRONS



Black finished top and twisted handle, polished face

| Nos. | B | C |
|---|---|---|
| Weight, lbs. | 15 | 18 |
| Size, inches | 4½x8½ | 4½x8½ |
| Height, inches | 6¼ | 6⅜ |
| Pound | $0.10 | .10 |

## LAUNDRY WAX




### BROWNIE

Free from fat, tallow or any injurious substances; assorted white and yellow cakes; for ironing, sewing and general household use.

Case

No. B—Cake 1¼x1¾ inches; display case 6x6⅝x9¼ inches, with glass lid; weight per case 4½ lbs. ..... $ 3 00

Packed, four dozen in display case.

## SAD IRON HANDLES

POTTS

Stamped steel stretcher; varnished walnut grip.

No. 2 — Japanned; length 6 inches; height 3¾ inches; weight per dozen 4 lbs... Doz. $ 1 20

No. 20—Tinned, otherwise same as No 2 ... 1.60

Packed, one half dozen in package

NEVER BREAK

Steel stretcher and hollow handle; black enameled. Doz.

No. 10—Length 5¾ inches; height 3⅜ inches; weight per dozen 6 lbs ....$ 1.70

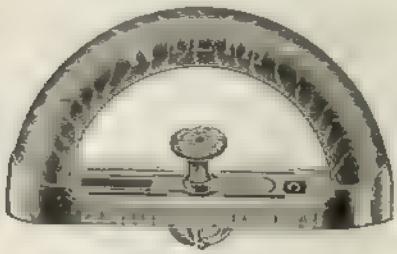
Packed, one in box

OBER

Stamped steel stretcher, black japanned; varnished hardwood grip. Doz.

No. 22—Length 6 inches; height 3⅝ inches; weight per dozen 8 lbs.....$ 1.60

Packed, one-half dozen in package.

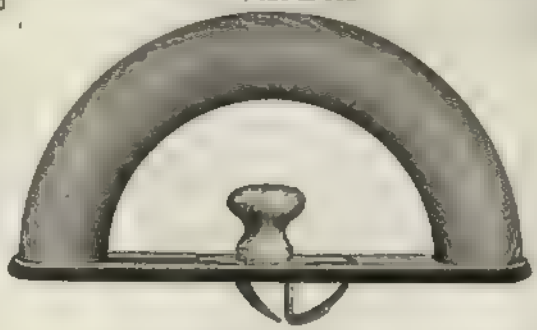


WYETH

Cast iron stretcher, heavily tinned; varnished hardwood grip Doz.

No. 400 Length 6¼ inches, height 3¾ inches; weight per dozen 7 lbs .. $ 2.00

Packed, one dozen in box

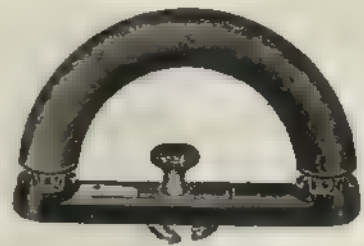


ENTERPRISE

Cast iron stretcher, tinned; polished hardwood grip Doz.

No. 105 Length 6 inches, height 3¼ inches, weight per dozen 7 lbs... .$ 2 50

Packed, one-quarter dozen in package.



ALASKA

Semi-steel stretcher, nickel plated; oil finished hardwood grip Doz

No. 15—Length 5¾ inches, height 3½ inches; weight per dozen 7 lbs . .$ 4.00

Packed, one-quarter dozen in package.

## CLOTHES PINS

No. C10

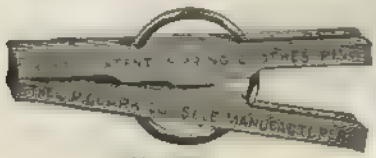
No E20

Case

No. C10—Common; full count; length 4 inches, weight per case 13 lbs ..... $ 1 80

No. E20—Emco; hardwood; length 4 inches; weight per case 13¼ lbs ..... 1 70

Packed, No. C10, five gross in carton; No. E20, twenty-four in box, twenty-four boxes in carton



No. H30

No. U40

Gro.

No H30 Hoyt's; white basswood; galvanized wire spring; length 2¾ inches, weight per gross 3 lbs.....$ 0.74

No. U40—U. S.; hardwood; galvanized wire spring; length 3⅛ inches; weight per gross 4 lbs..... 1.20

Packed, No. H30, one-quarter gross in carton, five gross in case; No. U40, one gross in carton, twelve gross in case

## CLOTHES SPRAYERS

EASY

Perforated aluminum; with cork stopper to fit in bottle with from ⅛ to ⅜-inch opening; sprinkles evenly; can also be used for spraying house plants, sprinkling floor for sweeping and vinegar over salads.

Doz

No. E—Diameter top 1⅝ inches; height 2⅛ inches; weight per dozen 1 lb. .....$ 0.90

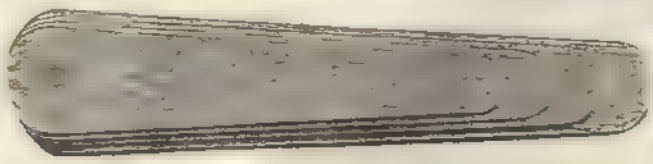
Packed, one dozen on card; two cards in box.

## SLEEVE BOARDS

Doz

No. 1—Padded and covered top, 20½ inches long, 4½ to 2-inch taper; nailed and bolted bottom, 20x3¾ inches; two uprights, 2x2½x¾-inch; very solidly built and will not loosen under weight of ironing; weight per dozen 27 lbs.....$ 4.00

## SKIRT BOARDS



Made of white basswood, well shaped and finished; each board wrapped in heavy paper.

| Nos. | 4½ | 5 | 5E | 6½ |
|---|---|---|---|---|
| Length, feet | 4½ | 5 | 5 | 5½ |
| Width, small end, inches | 7 | 8¼ | 9 | 9 |
| Width, large end, inches | 11 | 12 | 14 | 12¾ |
| Weight per dozen, lbs. | 76 | 97 | 108 | 118 |
| Dozen | $9 00 | 10 50 | 13 50 | 12 50 |

Packed, one-half dozen in crate.

# Sterling Silver Napkin Rings

8813
Napkin Ring, Sterling, Satin, Engraved, Gold Lined, **$5 00** each.

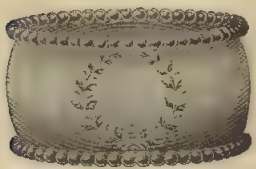
8814
Napkin Ring, Sterling Silver, Satin Finish, Engraved Center, Burnished Edges, Gold Lined, **$2 50** each.

8815
Napkin Ring, Heavy Sterling Silver, Gray Finish, **$7 00** each.

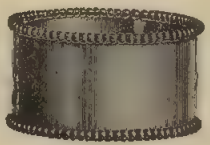
8816
Napkin Ring, Engraved, Gold Lined, **$4 00** each.

8817
Sterling Napkin Ring, Bright Polished, **$4 50** each.

8818
Sterling Napkin Ring, Bright Polished, **$6 25** each

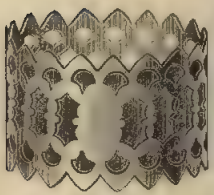


8819
Napkin Ring, Sterling, Satin Finish, Engraved Wreath, **$4 85** each.



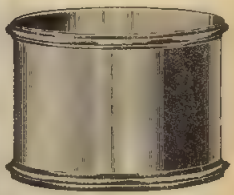
8820
Napkin Ring, Bright Polished, **$2 95** each.

8821
Napkin Ring, Sterling Silver Satin Finish, Hand Engraved, **$6 00** each.



8822
Napkin Ring, Sterling Silver, **$3 50** each.

8824 Napkin Rings, Sterling, Actual Size 2¼x3x4, Set Complete in Silk Case, **$15 00**



8823
Napkin Ring, Sterling Silver, Polished Thread Edge, **$4 85** each.

One Satisfied Customer Creates Another. If We Serve You Well, Tell Others; if Not, Tell Us.

"THE HOUSE OF QUALITY"

# NEW ENGLAND AND NEW YORK STANDARD CHRONOGRAPHS
# NEW YORK STANDARD MOVEMENTS AND NEW HAVEN WATCHES

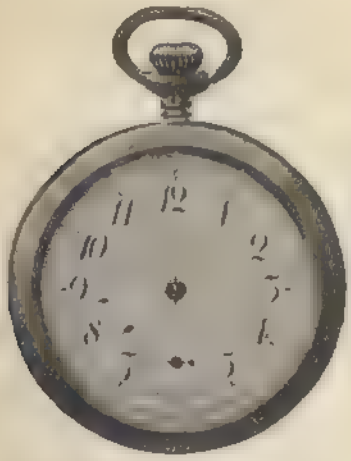
PRICES EACH

**New England Chronograph**
No. 1235 Open Face, Nickel . . $12 00
No. 1236 Open Face, 20 Year, Gold Filled . 18 50

**New England Chronograph**
Showing Movement

**New England Chronograph**
No. 1237 Open Face $15 50
20 Year Gold Filled Case

**Jockey Club Nickel Timer**
[illegible]
No. 1238 [illegible] $8 50
No. 1239 [illegible] 11 00

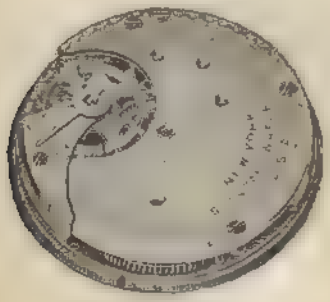


**New England Chronograph**
No. 1240 [illegible] $12 00
No. 1241 [illegible] 18 50
[illegible]

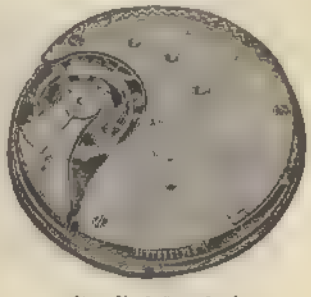
**New York Standard Chronograph**
No. 1242 18 Size, 7 Jewel $10 30
In Silveroid Cases only, Lever Set

**Lady Clare**
No. 1243 New Haven $2 50
Stem Wind and Stem Set

**Jerome**
No. 1244 New Haven $1 30
Stem Wind and Stem Set



**New York Standard**
No. 1245 18 Size $3 20
Hunting or Open Face



**New York Standard**
No. 1246 16 Size $3 80
Hunting or Open Face

**New York Standard**
No. 1247 6 Size $3 00
Hunting and Open Face

**New York Standard**
No. 1248 0 Size, 7 Jewel $4 30
Hunting and Open Face

# EXCELSIOR COMPLETE WATCHES 20 YEAR GOLD FILLED HUNTING AND OPEN FACE CASES

ILLUSTRATIONS ACTUAL SIZE—PRICES EACH

## 12 SIZE

No. 1249 Hunting ..... $13 00
No. 1250 Screw Back and Bezel . 10 00

No. 1251 Hunting $13 00

No. 1252 Hunting . . . . . $13 00
No. 1253 Screw Back and Bezel . 10 00

## 12 SIZE

No. 1254 Screw Back and Bezel $10.00

No. 1255 Hunting . . . . . $13 00
No 1256 Screw Back and Bezel 10 00

No. 1257 Screw Back and Bezel $10 00

No. 1258 Screw Back and Bezel $10 00

## COMPLETE O SIZE QUEEN 20 YEAR WATCHES

No. 1259 Hunting ..... $13 00
No. 1260 Open Face . . . . . 11 80

No. 1261 Hunting .. ..... $13 00
No. 1262 Open Face ..... 11 80

No. 1263 Hunting $13 00
No 1264 Open Face 11 80

No. 1265 Hunting . ..... $13 00
No. 1266 Open Face ..... 11 80

# New Haven Clock Co.'s Fine Mahogany Clocks

Prices Each

**QUANAH—$16.95**

Solid mahogany case, height 6⅛ in., width 12¼ in., 3½-in. porcelain dial, 8 day time.

**ROMERO**

Solid mahogany case, height 4¾ in., width 9¾ in., 2⅝-in. porcelain dial, beveled bowed glass.

Eight day time . . . . . $13.35
One day time . . . . . 10.85
One day time and alarm . . . . 13.35

**QUINBY**

Solid mahogany case, height 7¼ in., width 13¼ in., 4-in. porcelain dial, beveled glass.

Eight day time . . . . . $21.70

**WARREN**

Solid mahogany case, height 24½ in., width 9¾ in., 4-in. porcelain dial, French cast sash, beveled glass.

Eight day time . . . . . $31.50

**NORTON**

Solid mahogany case, height 6½ in., width 4¾ in., 2½-in. porcelain dial, beveled bowed glass.

Eight day time . . . . . $12.10
One day time . . . . . 9.60
One day time and alarm . . . . . 12.10

**HOBSON**

Solid mahogany case, height 6½ in., width 4⅜ in., 2¼-in. porcelain dial, beveled bowed glass.

Eight day time . . . . . $12.10
One day time . . . . . 9.60
One day time and alarm . . . . . 12.10

**WINSTON**

Solid mahogany case, height 23⅜ in., width 7⅞ in., 4-in. porcelain dial, French cast sash, beveled glass.

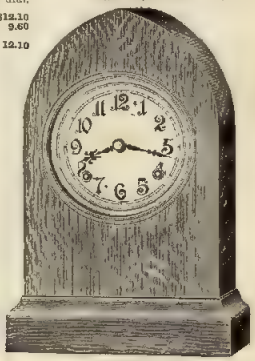
Eight day time . . . . . $31.50

**AUBURN—$16.35**

Mahogany finish, 8 day, half-hour strike, cathedral gong, height 12¾ in., width 8⅜ in., 4-in. porcelain dial.

**QUESTA—$16.15**

Solid mahogany 8 day time, 3½-in. porcelain dial, height 6⅝ in., width 12 in.



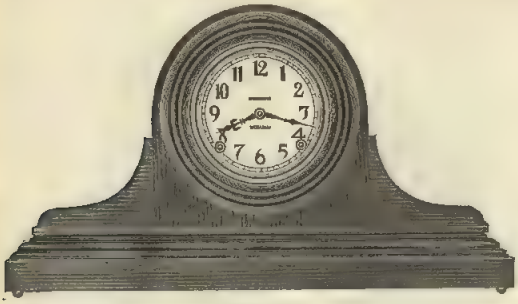
**AURORA—$16.35**

Mahogany finish, 8 day, half-hour strike cathedral gong, height 12½ in., width 8¼ in., 4-in. porcelain dial.

# FINE CABINET AND TAMBOUR CLOCKS

Made by the Ingraham Clock Co.

PRICES EACH



**NOMAD $16.25**
Natural grain mahogany, rubbed finish case; eight-day; half hour strike, hours on cathedral gong, half hours on cup bell; 8-inch dial; convex glass. Height 10¾ inches. Length of base 19¾ inches.

**AZTEC $15.00**
Natural mahogany, rubbed finish case, brass panels front and sides, eight day; half hour strike, hours on cathedral gong, half hours on cup bell, 8-inch dial, convex glass. Height 11¼ inches, length of base 6½ inches.

**ESSEX $15.00**
Natural grain mahogany rubbed finish case; inlaid decorations, eight day, half hour strike, hours on cathedral gong, half hours on cup bell; 8-inch dial; convex glass. Height 12⅝ inches, length of base 9½ inches.

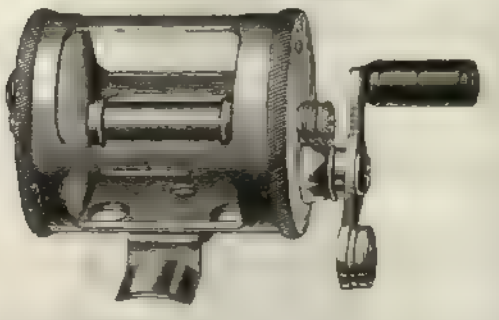
**NESTOR $16.25**
Natural grain mahogany, rubbed finish case; eight day; half hour strike, hours on cathedral gong, half hours on cup bell; 8-inch dial, convex glass. Height 10 inches; length of base 19¼ inches.

**NEPTUNE $16.65**
Natural grain mahogany, rubbed finish case, eight day; half hour strike, hours on cathedral gong, half hours on cup bell; 8-inch dial, convex glass. Height 10¾ inches, length of base 19¾ inches.

**BELFRY $15.00**
Natural grain mahogany, rubbed finish case, inlaid decorations, eight day, half hour strike, hours on cathedral gong, half hours on cup bell, 8-inch dial; convex glass. Height 12 inches length of base 9½ inches.

# FISHING REELS

## SIMPLEX BLUE GRASS

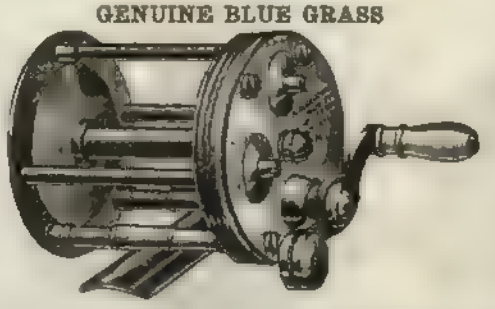


Simplex, reel made of brass and German silver; all parts heavily nickel plated; frame of one piece seamless tubing, threaded on the inside; front plate is rigidly fixed in frame and carries bearing for both rear and front pivot of spool; gear, pivots and pinion of Stubb's steel, hardened, ground and polished, pivots and pinion of one solid piece; sliding click drag on back end of reel; both click and spring of finest oil tempered steel; 1⅝ inch spool.

| | Doz |
|---|---|
| No. ST33R—Improved Blue Grass; 120 yards of No. 5 line diameter 1⅝ inches, weight per dozen 8 lbs.. . | $ 134 40 |

Packed, one in box.

## GENUINE BLUE GRASS

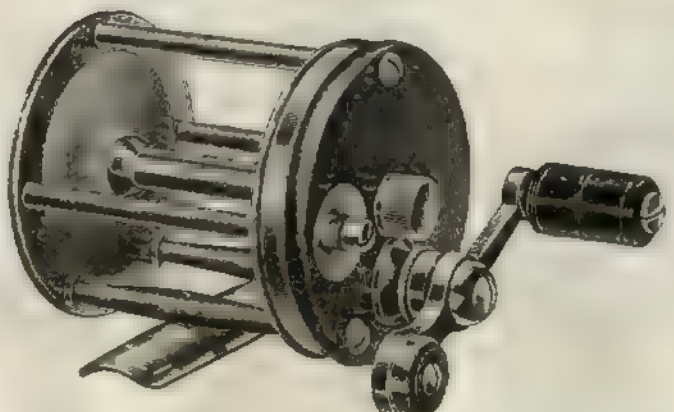


Quadruple multiplying, German silver; ivory thumb piece; spiral gears; tempered tool steel pivots and stud; screwed balance handle; click and drag; 1⅝-inch spool.

| | Doz. |
|---|---|
| No. ST38R—Blue Grass; 120 yards of No. 6 line; diameter 2 inches; weight per dozen 8 lbs.. . . | $ 270 00 |

Packed, one in box.

## TALBOT

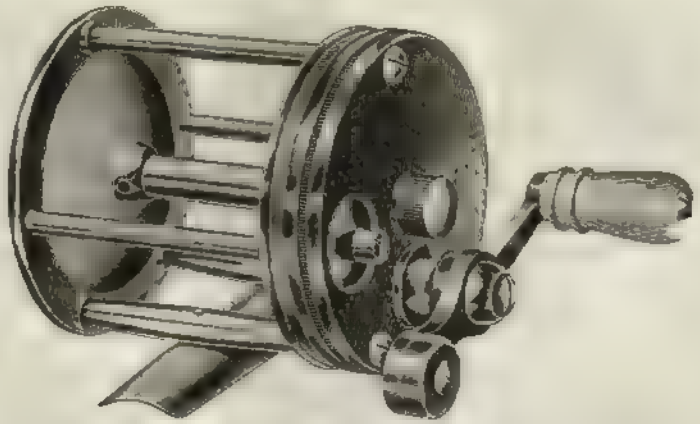


Quadruple multiplying; German silver; plain bearings; improved spiral gears; steel pinions; studs and pivots hardened and oil tempered; aluminum brass wheel; balance handle with rubber grasp; click on front plate; 1⅝-inch spool

| | Doz |
|---|---|
| No. ST34R—Comet; 80 yards diameter 1⅝ inches; weight per dozen 8 lbs..... . . ..$168 00 | $252 00 |

Packed, one in box.

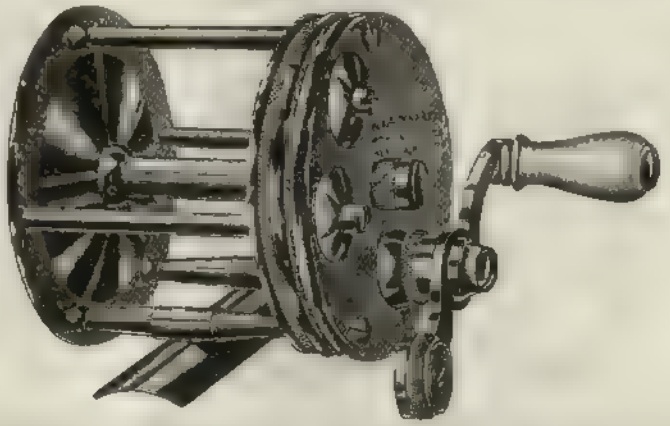
## TALBOT



Quadruple multiplying; German silver; plain bearings; spiral frictionless gears; steel pinions; studs and pivots hardened and oil tempered; aluminum bronze wheel; ivory handle; click on front plate; 1½-inch spool.

| | Doz |
|---|---|
| No. ST35R—Meteor; 100 yards; diameter 2 inches; average weight 10 oz. .....$180 00 | $270 00 |

Packed, one in box.



Best quality; German silver; French gray finish; steel pinion; studs and pivots are hardened and oil tempered; 1½-inch spool.

| | Doz |
|---|---|
| No. ST36R—Niangua; 60 to 100 yards; diameter 2 inches; with click, drag and oil caps; weight per dozen 8 lbs. .....$192 00 | $288 00 |
| No. ST37R—Niangua; with jewels; otherwise same as No. ST36R; weight per dozen 8 lbs.....$240 00 | 360 00 |

Packed, one in box.

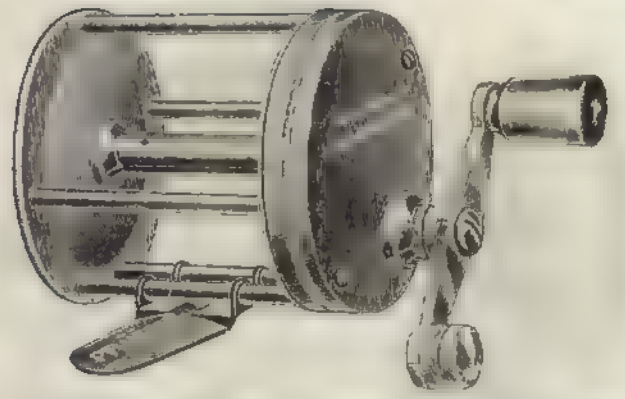
## REDIFORD SELF-THUMBING

Kentucky pattern; quadruple multiplying; nickel; ivory thumb piece; spiral gears; tempered tool steel pivots; screwed; balance handle; with click; 1⅝-inch spool; inside of the spool of this reel is a device that thumbs the reel mechanically; centrifugally provides a slight pressure proportionate to the speed of the spool, reduced to nothing as the bait slows down and more even than any human thumb can possibly be trained to employ

| | Doz. |
|---|---|
| No. ST38R—80 yards; diameter 2 inches; average weight 10 oz. | $100 80 |
| No. ST39R—With jeweled caps; otherwise same as No. ST38R. | 126.00 |

Packed, one in box.

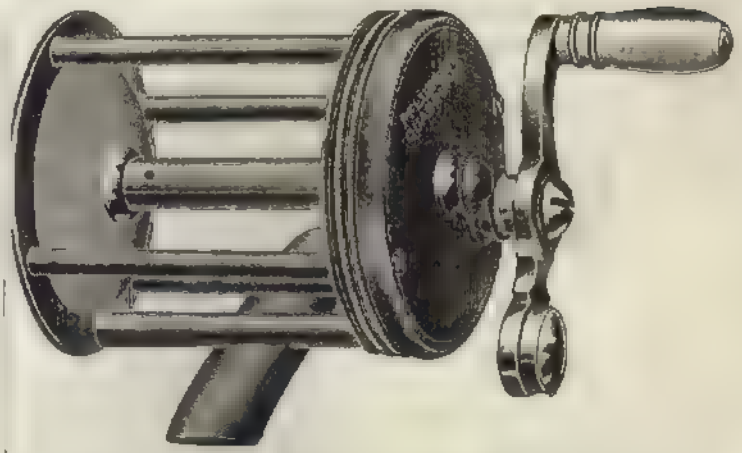
## FISHING REELS



Wide pattern; quadruple multiplying; nickel plated; adjustable back sliding click and drag; white handle; bushing and oil cup back plate; 1⅝-inch spool.

| | Doz. |
|---|---|
| No. ST400R 40 yards, diameter 1¾ inches; average weight per dozen 5½ lbs. | $15.00 |
| No. ST401R—60 yards, diameter 2 inches; average weight per dozen 5½ lbs. | 16 20 |
| No. ST402R—80 yards, diameter 2¼ inches, average weight per dozen 5½ lbs. | 17.40 |

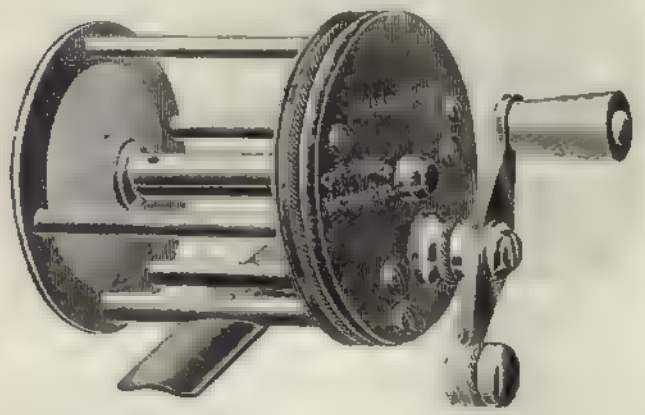
Packed, one-twelfth dozen in box.



Quadruple multiplying; silverine; screwed; balance handle; patent adjustable slide drag and back sliding click

| | Doz |
|---|---|
| No. ST223R—60 yards; diameter 2 inches; average weight per dozen 7 lbs. | $32 00 |
| No. ST223J- 60 yards' jeweled' otherwise same as No ST223R | 42 00 |

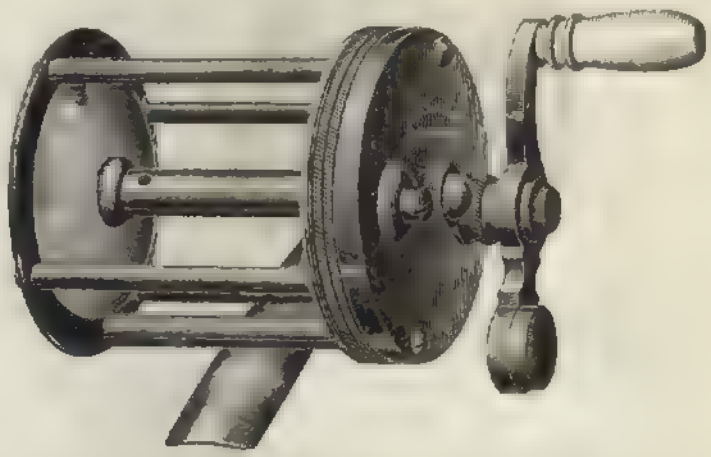
Packed, one-twelfth dozen in box.



Quadruple multiplying; nickel plated; adjustable back sliding click; steel pivots; pinion; click spring and tongue; white handle; Kentucky pattern cross plate.

| | Doz. |
|---|---|
| No. ST502R—60 yards; diameter 2 inches; pillar 1⅝ inches; average weight per dozen 6 lbs. | $18.00 |
| No. ST503R—80 yards; diameter 2 inches; pillar 1⅝ inches; average weight per dozen 6 lbs. | 19.00 |

Packed, one-twelfth dozen in box.



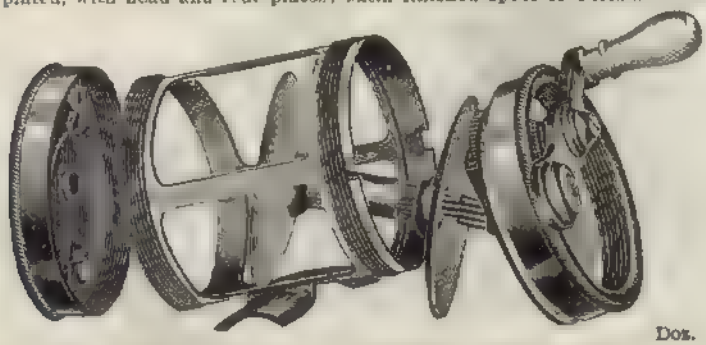
Norka; Kentucky pattern; solid German silver; ivory handle; steel pivots; adjustable click and drag; 1⅝-inch spool.

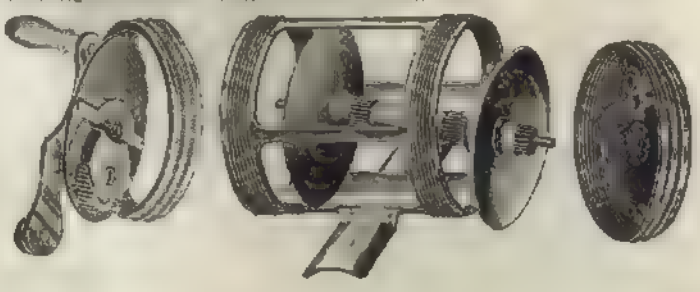
| | Doz. |
|---|---|
| No. ST793R—60 yards; diameter 2 inches; average weight per dozen 7½ lbs. | $84.00 |
| No. ST793J 60 yards jeweled otherwise same as No. ST793R | 96 00 |

Packed, one-twelfth dozen in box.

### TRI-PART AND TAKAPART

Tubular frame Tri part and Takapart reels, the term "tubular frame" describes the construction of the frame, and means that the entire frame of the reel is made from a solid piece of tubing with flat pillars or cross bars there are no screws or rivets to work loose, highly nickel plated, with head and rear plates, satin finished spool of German silver; patent adjustable slide drag and back sliding click



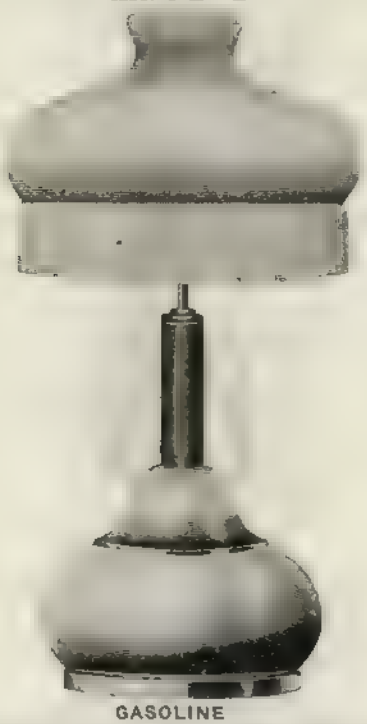


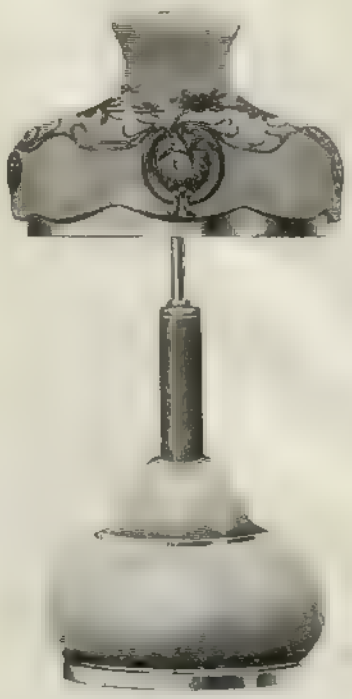
| | Doz. |
|---|---|
| No. ST580R Tri-part, 80 yards, spool 1¾x1⅜ inches; average weight per dozen 5½ lbs | $64 00 |
| No. ST480R—Takapart 100 yards, spool 1¾x1⅝ inches average weight per dozen 5½ lbs. | $66 00 |

Packed, one-twelfth dozen in box.

# LAMPS

## AIR-O-LITE





### GASOLINE

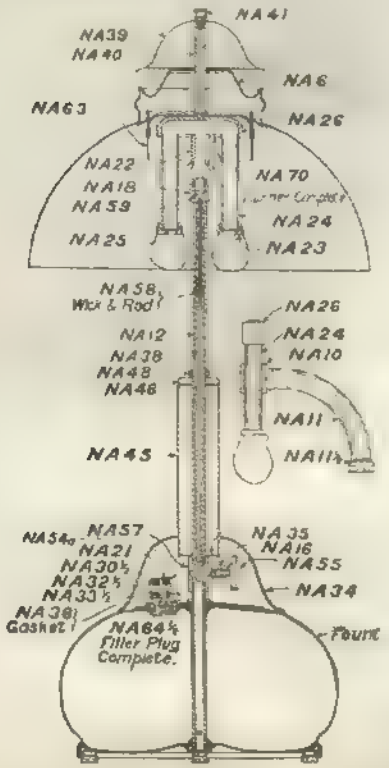
Nickel plated brass fount tested to 200 pounds pressure to the square inch, capacity two quarts, fitted with seal tube so that fount cannot be overfilled, solid, rolled brass burner, nickel plated, hard polished fibre handle, gives brilliant light at very small cost, impossible for fuel to escape from overturned lamp, one filling per week, if burned four hours each night, complete with two rag mantles, pump, generating torch and bottle for denatured alcohol; extra wick and screen; 300 candle power.

| | Each |
|---|---|
| No. 307—Opal fluted glass shade, height 23½ inches, weight 7½ lbs. Packed, one in box | $10 00 |

| EXTRA SHADES | Doz. |
|---|---|
| No. 300—For No. 307 lamp; weight per dozen 20 lbs. Packed, one-half dozen in case. | $ 6.00 |

| | Each |
|---|---|
| No. 317—Frosted shade with 4 inch crystal fringe, universal shade holder, height 23½ inches, weight 7½ lbs. Packed, one in box. | $10.80 |

| | Each |
|---|---|
| No. 318—Decorated shade in brown and tan tints, universal shade holder, height 23½ inches, weight 7½ lbs. Packed, one in box | $10 80 |




## *AIR-O-LITE LAMP REPAIRS

| | Each |
|---|---|
| No. NA41—Heat bell screw | $ 0 10 |
| No. NA40—Heat bell stem; weight 1 oz | 10 |
| No. NA39—Heat bell; weight 2 oz | 40 |
| No. NA66—Heat bell plate and spring; weight 1 oz | 20 |
| No. NA63—Metal chimney; weight 3 oz | .40 |
| No. NA26—Mixing chamber; weight 3 oz | 60 |
| No. NA24—Burner tube; weight 1 oz | 20 |
| No. NA25—Burner cap screen | .10 |
| No. NA23—Burner cap and screen | .30 |
| No. NA11—Air-intake tube; weight 3 oz | 30 |
| No. NA11½—Air regulator cap | .20 |
| No. NA10—Air-intake coupling; weight 2 oz | .40 |
| No. NA22—Burner tube; weight 1 oz | 20 |
| No. NA70—Burner complete, assembled; weight 1 lb | 4 00 |
| No. NA18—Gas tip; weight 1 oz | 30 |
| No. NA59—Tip screen | 10 |
| Nos. NA58 and NA12—Generator tube and filter; weight 6 oz | 1.00 |
| No. NA58—Generator filter | 10 |
| No. NA45—Handle; weight 1 oz | 20 |
| No. NA48—Set collar and screw | 20 |
| No. NA46—Handle cap | 10 |
| No. NA54—Valve cover; weight 3 oz | .60 |
| No. NA57—Valve body; weight 2 oz | .60 |
| No. NA16—Valve stem packing nut | .10 |
| No. NA55—Valve stem; weight 1 oz | .20 |
| Nos. NA57, NA16 and NA55—Valve complete; weight 2 oz | 80 |
| No. NA30½—Pump seating washer | .10 |
| No. NA21—Seating washer cap | .10 |
| No. NA36—Filler plug gasket | 10 |
| No. NA33½—Air stem packing | .10 |
| No. NA32½—Air stem packing cap | 10 |
| No. NA54A—Air stem complete; weight 1 oz | .40 |
| No. NA64½—Filler plug complete; weight 2 oz | 1 20 |
| Pump; weight 6 oz. | 80 |
| Wrench; weight 3 oz. | .30 |
| Hanger rod; weight 1 oz. | 10 |
| Fount, less filler plug; weight 2⅝ lbs. | 6 00 |

**NOTE—Goods marked thus (*) are for factory shipment only**

## LANTERNS

**STORM KING**

Nickel plated brass fount, tested to 300 pounds pressure, capacity one quart, swivel filler plug prevents leakage, fount has reinforced top and concave bottom, fitted with mica chimney, safe and reliable, absolutely storm proof, will burn anywhere and in any position; equipped with an automatic cleaning device which prevents the burner from clogging.

| | Each |
|---|---|
| **No. M**—Complete with rag mantle, pump and lighter; height 13 inches; weight 5 lbs | .....$ 9 00 |

Packed, one in carton.

## LAMPS

### NULITE, GASOLINE

Nickel plated brass fount, tested to 300 pounds pressure, capacity one quart, swivel filler plug prevents leakage, fount has reinforced top and concave bottom, all fittings on fount concealed by sliding canopy which can be raised, giving easy access thereto when needed, two burners fitted with flexible drop mantles placed one on each side of the generator keep the generator heated, even when the light is turned low, the automatic cleaning device cleans the tip and prevents the burner from clogging, aids in starting the light and serves as an adjusting valve when it is desired to turn the light down, gives a powerful white light of 250 candle power, burns 15 hours on one filling, **furnished with 12-inch china curtain style shade in plain white or beautifully decorated in four colors.**

The principal features of this lamp are safety, simplicity, economy, efficiency, reliability, durability, ease of operation, adjustment of light from a dim light to high candle power, all working parts are concealed but instantly accessible fully guaranteed

| | Each |
|---|---|
| **No. 10**—Complete with opal shade, two mantles and pump, height 22 inches; weight 6 lbs | .....$10.50 |

Packed, one in carton.

| | Each |
|---|---|
| **No. 10D**—Complete with fancy decorated shade, two mantles and pump, height 22 inches; weight 6 lbs | .....$11.00 |

Packed, one in carton

# OARS AND PADDLES

Fig. 1780

### ASH OARS Plain

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Length | feet | 6 to 10 | 11 | 12 | 13 | 15 | 16 |
| Price | per foot | .... | .... | | | | |

### SPRUCE OARS Plain

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Length | feet | 6 to 10 | 11 | 12 | 13 | 15 | 16 |
| Price | per foot | .... | | | | | |

### ASH OARS—Copper Tipped

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Length | feet | 6 to 10 | 11 | 12 | 13 | 15 | 16 |
| Price | per foot | .... | .... | | | | |

### SPRUCE OARS—Copper Tipped

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Length | feet | 6 to 10 | 11 | 12 | 13 | 15 | 16 |
| Price | per foot | | | | | | |

### SPOON OARS Copper Tipped and Leathered

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Length | feet | 6 to 10 | 11 | 12 | 13 | 15 | 16 |
| Price | per foot | | | | | | |

### SPRUCE CANOE PADDLES Varnished

| | | | | | |
|---|---|---|---|---|---|
| Length | feet | 4 | 4½ | 5 | 5½ |
| Price | per doz. | 13 00 | 15 00 | 17 00 | 19 00 |

# WAGON UMBRELLAS, ETC.

WITH SIX RIBS

Fig. 1761

WITH EIGHT RIBS

Fig. 1762

| | | |
|---|---|---|
| Price, Big Six, with six ribs | each | 8.00 |
| " " Eight, with eight ribs | " " | 8.00 |

Spread about 6 feet, extra strong construction, removable cover, complete with improved three jaw malleable seat clamp or ring fixture, and floor plate.

Furnished in blue, green, buff, red, white and orange colors.

## OILED HATS

CAPE ANN

Fig. 1763

SQUAM

Fig. 1764

### CAPE ANN HATS

| | | |
|---|---|---|
| Sizes | | 6¾ to 7½ |
| Price | per dozen | 5.50 |

Made in black and yellow. Fine woven duck, lined with soft flannel, neckpiece and earlaps attached, crown made soft and flexible while the brim is stiffened to preserve shape.

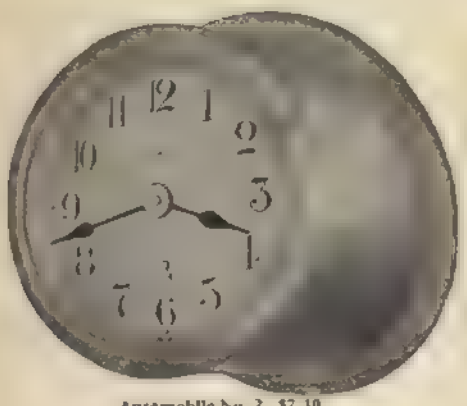
### SQUAM HATS

| | | | |
|---|---|---|---|
| Style | | Men's | Boys' |
| Sizes | | 6¾ to 7 | 6½ to 6⅞ |
| Price | per dozen | 3.25 | 2.75 |

Made in both yellow and black, lustre finish. Made from good, strong material and lined with white cotton flannel with earpieces attached.

# RELIABLE OFFICE AND AUTOMOBILE CLOCKS

PRICES EACH

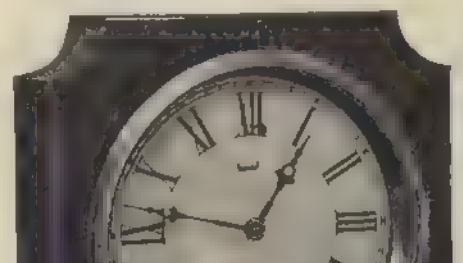


**Automobile No 2 $7 10**
Ansonia
Eight-day time. 2½ inch. Arabic or Roman. Winding, regulating and winding parts not exposed. Movement in brass, nickel or black and nickel.

**Florida $7 70**
Waterbury
Polished brass or nickel case for automobiles. Eight-day time. 2 inch porcelain dial. Beveled glass. May be set over or back of lamp. Winds, regulates and sets from outside.

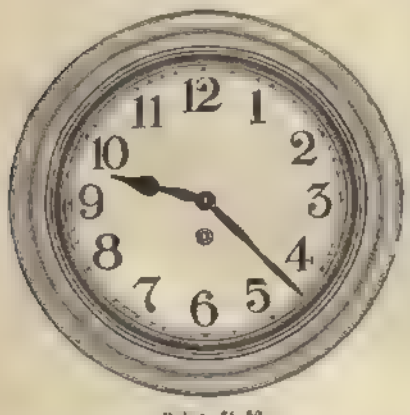
**Auto Watch $6.15**
Ansonia
Improved folding black-leather case, 30 hours time.

**Lyceum $7 50**
Waterbury
Oak
Eight-day time. Pendulum movement. 12-inch dial. Height, 25 inches. Width, 17⅛ inches.



**Bangor $4 70**
Seth Thomas
13 inches wide, 3½ inches deep. Eight-day lever time. Strongest barrels. Quartered oak case, rich dull oak or mahogany finish. Absolutely correct for office or home use, will run in any position and not affected by vibration.

**Boston $6 50**
13 inches square, 4½ inches deep. Eight-day lever time. Strongest barrels. 10-inch dial. Case rich dull oak or mahogany finish. Absolutely correct for office or home use, will run in any position and not affected by vibration.



**Polar $6 50**
Waterbury
Porcelain White
Eight-day time. Pendulum movement. 12-inch dial. Diameter 16¾ inches.

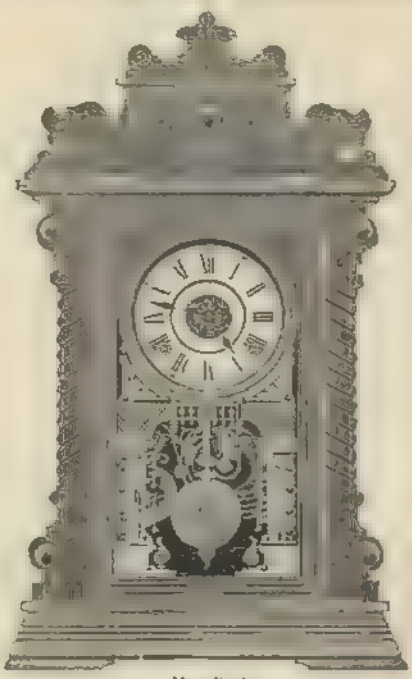
**Office No 5 $10 80**
Seth Thomas
Eight-day time. Mahogany or oak only. Eight-day. Pendulum. 12-inch dial. Height, 23½ inches. Width, 19 inches.

**Fulton $18 50**
Seth Thomas
Mahogany or Oak
Case 18¾ inches wide, 5¾ inches deep. Dial 14 inches. Thirty-day time.

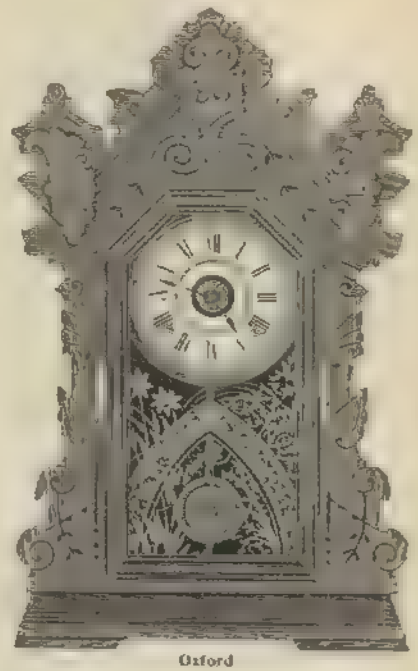
# RELIABLE KITCHEN CLOCK ASSORTMENT

## COLLEGE SERIES MADE BY THE SETH THOMAS CLOCK CO. Six in a Case. Sold by Case only

Cambridge



New York



Oxford

ASSORTMENTS

| | | |
|---|---|---|
| No. 20 | Six Cathedral Bell Strike | $29 80 |
| No. 21 | Three Cathedral Bell Strike and Three Alarm | 31 60 |
| No. 22 | Six Cathedral Bell Strike and Alarm | 33 40 |

[illegible] Cathedral strike, 11 inches high, Cherry finish, 23 inches high. Made in [illegible] Mahogany finish, [illegible] only in assortments, consisting of six clocks, [illegible] of six clocks [illegible] of the six different designs.

## FLEET SERIES MADE BY THE SETH THOMAS CLOCK CO. Six in a Case Sold by the Case only

ASSORTMENTS

| | | |
|---|---|---|
| No. 15 | Six Wire Bell Strike | $27 00 |
| No. 16 | Three Wire Bell Strike, Three Alarm | 28 50 |
| No. 17 | Six Wire Bell Strike, All Alarm | 30 00 |

[illegible] strike, 6-inch dials, 23 inches high. Made in oak only. [illegible] only in assortments, consisting of six clocks, two of each of the three [illegible] Tablets show picture of four of the celebrated battleships that took part in the famous peace cruise around the world in 1907-8.

# OFFICE OR FACTORY HANGING CLOCKS

PRICES EACH

**Admiral $9 50**
Waterbury
Oak. Height, 32 inches. Dial 12 inches. Thirty

**Regulator A $9 50**
Waterbury
Ash or [illegible] with [illegible] glass cover. Dial, 12 inches. Eight-[illegible]

**Consort $9 00**
Waterbury
Oak or walnut [illegible] 32 inches. Dial 12 inches. Eight-[illegible]

**Drop Octagon, 12-inch $6 40**
Eight-[illegible]
**Drop Octagon, 12-inch $6 80**
[illegible]
Oak or [illegible] Height, 24 inches. Eight-[illegible]
Waterbury

**Drop Octagon, 12-inch $6 80**
Oak. [illegible]
**Eight-Day, Time $5 80**
Waterbury

**Drop Octagon, 10-inch $5 20**
Oak. Eight-day, time
Waterbury

# RELIABLE OFFICE CLOCKS AND REGULATORS

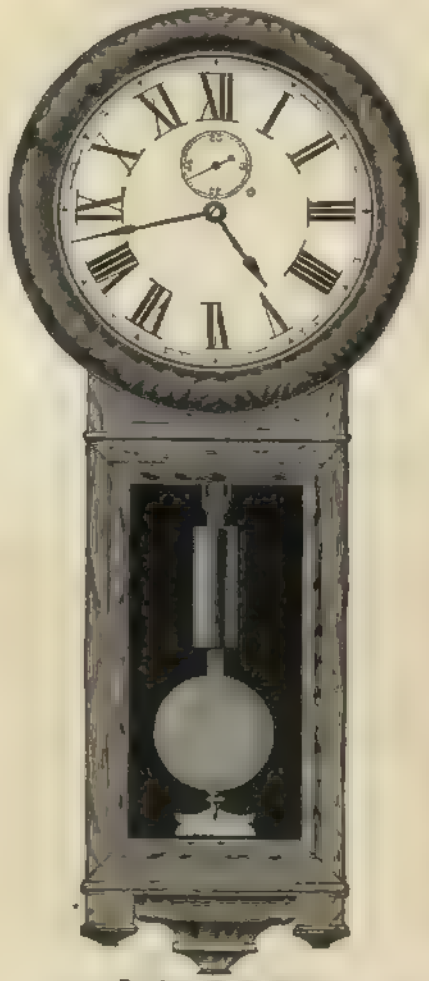
PRICES EACH

**Wood Lever, 8-inch $8.50**
Seth Thomas
Walnut wood case. Eight-day time.

**Oak Lever, 8-inch $4 85**
**Oak Lever, 12-inch 6 10**
Waterbury
Eight-day time

**Chatham $7 80**
Mahogany and golden oak. Eight-day. Pendulum 12-inch dial. Diameter 16 inches.
Seth Thomas

**Santa Fe $36 10**
Arcadia
Oak or mahogany. Height 52 inches; dial, 10 inches. Eight-day weight time.

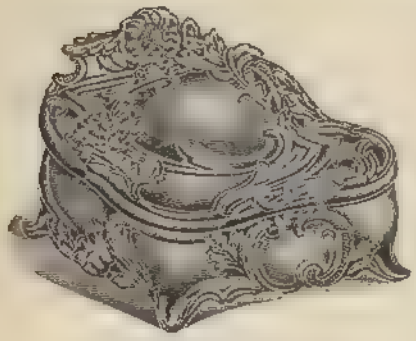


**Regulator No 2 $24 50**
Seth Thomas
A standard small regulator for [illegible], schools [illegible] Mahogany, oak [illegible] Eight-day, weight [illegible] Movement has strong wrought plates and is secured to case by [illegible] pendulum suspended from [illegible] dead beat escapement, wood rod [illegible] and eighty beats to the minute. Has striking power.

**Crane, Oak $5 90**
Waterbury
Eight-day, time. 12-inch dial. Height, 37 inches; width, 16½ inches.

# ORMOLU GOLD AND PARISIAN SILVER JEWEL BOXES, HAT PIN HOLDER, INK STANDS, PUFF JARS AND HAIR RECEIVER

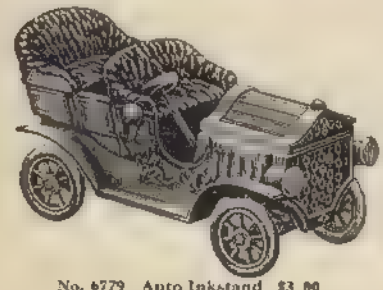
ALL JEWEL BOXES ARE SILK LINED—PRICES EACH



**No. 6775 Jewel Box $2 50**
Fine Silk Lining and Cord Edge
Finish, Parisian Silver
4⅝ inches long, 3⅜ inches wide, 2¼ inches high

**No. 6776 Jewel Box $2 88**
Fine Silk Lining and Cord Edge
Finish, Parisian Silver
4¾ inches long, 3½ inches wide, 2¾ inches high

**No. 6777 Jewel Box $1 66**
French Gray
**No. 6778 Jewel Box $2 00**
Ormolu Gold
4½ inches long, 3 inches wide, 3½ inches high



**No. 6779 Auto Inkstand $3 00**
French Gray
**No. 6780 Auto Inkstand $3 50**
Ormolu Gold
6 in. long, 3¼ in. wide, 3¼ in. high

**No. 6784 Hat Pin Holder $1 50**
Has Lower Part Quilted Velvet Covered
Finish, Parisian Silver
5¼ in. high, 3¼ in. wide

**No. 6781 Jewel Box $1 00**
Fine Silk Lining and Cord Edge
Finish, Parisian Silver
3⅝ in. long, 3 in. wide, 2⅜ in. high

**No. 6782 Jewel Box $1 34**
Fine Silk Lining and Cord Edge
Finish, Parisian Silver
4 in. long, 3 in. wide, 2⅝ in. high

**No. 6783 Jewel Box $1 66**
Fine Silk Lining and Cord Edge
Finish, Parisian Silver
4¼ in. long, 3¼ in. wide, 3 in. high

**No. 6785 Inkstand $2 90**
French Gray
**No. 6786 Inkstand $2 50**
Ormolu Gold
8¾ inches long, 5 inches wide, 3½ inches high

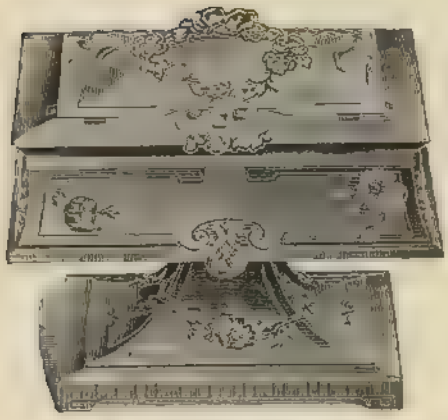
**No. 6787 Puff Jar $1 50**
Parisian Silver
Glass Jar Fitted with Fancy Metal Cover
4⅜ inches high, 3⅓ inches wide

**No. 6788 Puff Jar $1 34**
Parisian Silver
Glass Jar Fitted with Fancy Metal Cover
4¼ inches high, 3 inches wide

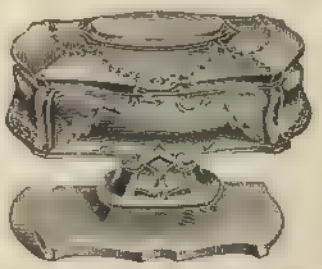
**No. 6789 Hair Receiver $1 34**
Parisian Silver
Glass Jar Fitted with Fancy Metal Cover
4¼ inches high, 3 inches wide

# RICH ORMOLU GOLD AND PARISIAN SILVER JEWEL, HANDKERCHIEF AND GLOVE BOXES

ALL BOXES SILK LINED—PRICES EACH

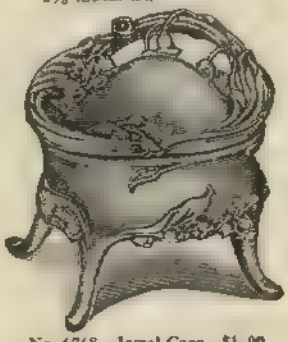


**No. 6764 Pedestal Jewel Case $7 50**
Fine Quality Silk Velvet Lining
Finish, Parisian Art Silver
5¼ inches long, 3½ inches wide, 4 inches high

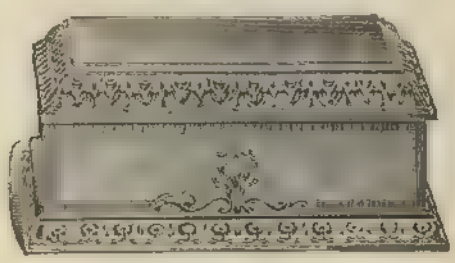


**No. 6765 Pedestal Jewel Case $2 50**
Fine Quality Silk Velvet Lining
Finish, Pompeian Gold
3⅝ inches long, 3 inches wide,
2⅝ inches high

**No. 6766 Jewel Case $6 00**
3½ inches long, 3½ inches wide, 3 inches high
Finishes, Parisian Silver and Pompeian Gold



**No. 6768 Jewel Case $1 00**
Fine Silk Lining and Cord Edge
Finish, Parisian Art Silver
3 inches long, 2 inches wide, 3 inches high

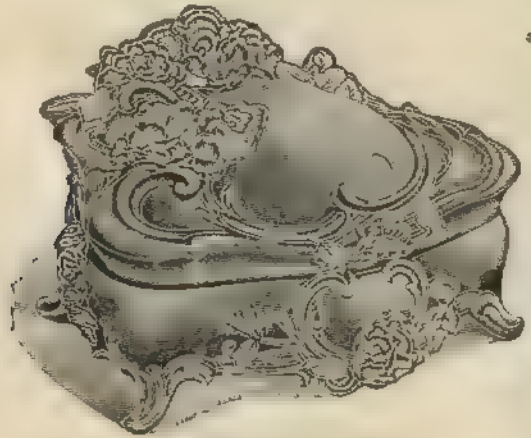


**No. 6769 Jewel Case $2 66**
Fine Quality Silk Velvet Lining
Finish, Gray Burnished Silver
4⅛ inches long, 3¼ inches wide, 2¾ inches high

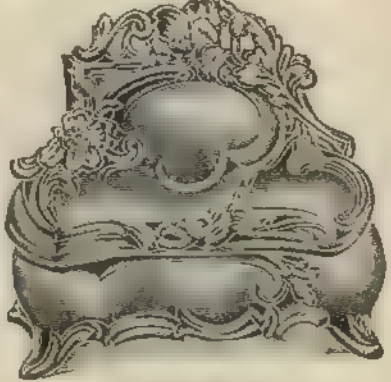
**No. 6767 Jewel Box $3 20**
Fine Silk Lining and Cord Edge
Finish, Parisian Silver
4⅝ inches long, 3⅝ inches wide, 4⅝ inches high

**No. 6770 Jewel Case $2 50**
Fine Silk Lining and Cord Edge
Finish, Pompeian Gold
4 inches long, 2⅞ inches wide, 4 inches high

**No. 6771 Jewel Box $2 50**
Fine Silk Lining and Cord Edge
Finish, Parisian Silver
6 inches long, 2⅝ inches wide, 3⅝ inches high



**No. 6772 Jewel Box $4 00**
Fine Silk Lining and Cord Edge Finish, Parisian Silver
5⅝ inches long, 5⅛ inches wide, 3⅝ inches high



**No. 6773 Jewel Case $2 50**
Fine Silk Lining and Cord Edge
Finish, Pompeian Silver
4⅝ inches long, 4⅛ inches wide, 3 inches high

**No. 6774 Rose Jewel Box $1 66**
Fine Quality Finish, Silk Lined
3¼ inches long, 3¼ inches wide, 3½ inches high

# AUTOMOBILE CLOCKS

## PHINNEY-WALKER

### FULLY WARRANTED

These Clocks meet the Demand for a Good Automobile Clock at a Reasonable Price. Made of the Best Grade Material and Very Handsome in Appearance and Workmanship, Strong, Built Especially to Withstand the Hard Usage and Vibration of Automobile Travel. Perfect in Construction and Good Time Keepers. Clocks are Easily Attached to Dash by Special Fastening Device.

**Note—To Wind Keyless Clock, Turn Bezel of Clock to the Right—Once a week; To Set or Regulate Clock Unscrew and take off Bezel by Turning to Left.**

### PHINNEY-WALKER MOVEMENT

Low Quick Beat 8 Day Time Movement. Cases Finished in polished Brass, Nickel, Black Enamel, with Nickel Rim.

2¾ inch Silver Finish Metal Dial; Heavy Plate Plate Glass Crystal. Height Over All 3⅝ inches, Width 3¼ inches, Weight per Clock 2¾ lbs.

| | Each |
|---|---|
| No. M10—Polished Brass Case | $12.00 |
| No. M20—Nickel Plated Case | 12.00 |
| No. M30—Black Enameled Case with Nickel Rim | 12.00 |

2⅝ inch Silver Finish Metal Dial, Heavy Plate Plate Glass Crystal, Height Over All 3⅝ inches, Width 3¼ inches, Weight per Clock 2¾ lbs.

| | Each |
|---|---|
| No. O10—Polished Brass Case | $12.00 |
| No. O20—Nickel Plated Case | 12.00 |
| No. O30—Black Enameled Case with Nickel Rim | 12.00 |

2⅝ inch Silver Finish Metal Dial, Heavy Plate Plate Glass Crystal, Height Over All 4⅜ inches, Width 3¼ inches, Weight per Clock 3 lbs.

| | Each |
|---|---|
| No. S10—Polished Brass Case | $16.50 |
| No. S20—Nickel Plated Case | 16.50 |
| No. S30—Black Enameled Case with Nickel Rim | 16.50 |

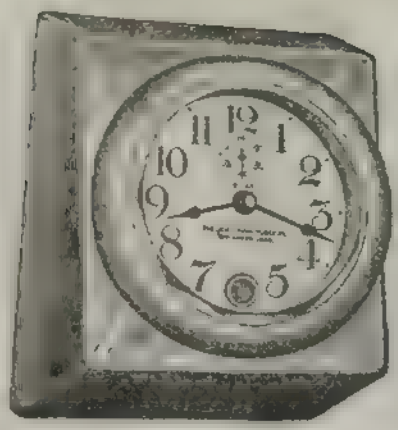
**NOTE.** A Card of Instructions for Winding Clock and Directions for Attaching Clock to Dashboard of Automobile Packed With Each Clock; Each Clock Also Equipped With Key for Winding and Screws, Nuts and Bolts for Fastening to Dashboard.

SHAPLEIGH
WE
FILL CAREFULLY
ELIMINATE SHORTS
SHIP QUICKLY
PRICE RIGHT
TRY US
MAIL ORDER SERVICE

The foundation of the SHAPLEIGH MAIL ORDER SERVICE is built from the "Golden Rule"—when the merchant entrusts his Mail Orders to us, we show our appreciation by filling them with painstaking care, shipping promptly and entering rock-bottom prices.

# AUTOMOBILE CLOCKS

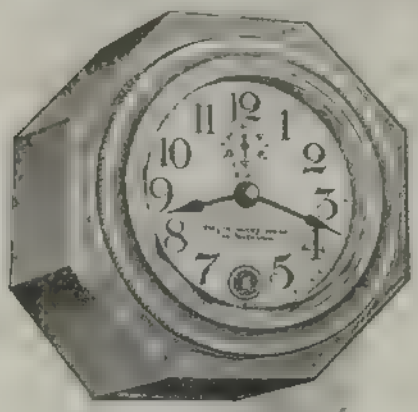
## FULLY WARRANTED



### MINEOLA

Fine Quick Beat 8 Day Time Movement; Case Finished in Polished Brass, Nickel or Black Enamel, 3 inch Porcelain Dial; Height Over All 4½ inches; Width 4 inches; One in a Box; Weight per Clock 2 lbs.

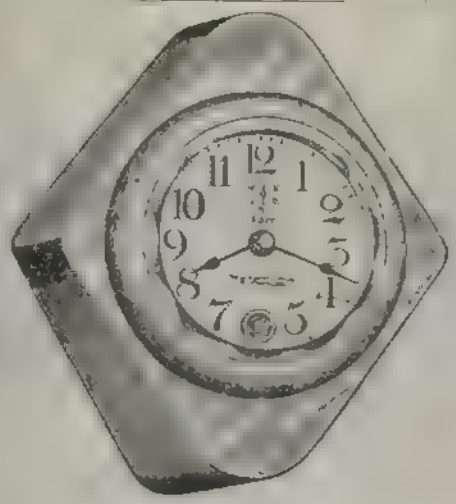
| | | Each |
|---|---|---|
| No MPN | Nickel Plated Case | $11 50 |
| No MPB | Polished Brass Case | 11 50 |
| No. MBE | Black Enamel Case | 11.50 |



### WESTBURY

Fine Quick Beat 8 Day Time Movement; Case Finished in Polished Brass, Nickel Plated or Black Enamel, 3 inch Porcelain Dial; Height Over All 4½ inches; Width 4 inches; One in a Box; Weight per Clock 1¾ lbs.

| | | Each |
|---|---|---|
| No WNP | Nickel Plated Case | $9 90 |
| No WPB | Polished Brass Case | 9 90 |
| No. WBE | —Black Enamel Case | 9 90 |



### DIEPPE

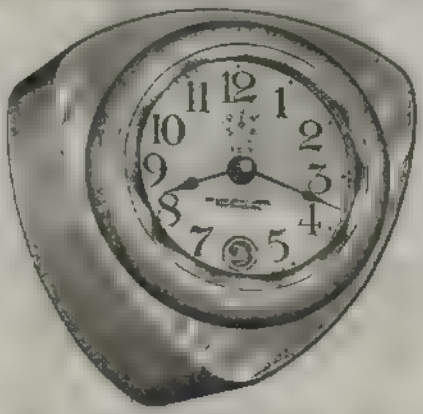
Fine Quick Beat 8 Day Time Movement; Case Finished in Polished Brass, Nickel Plated or Black Enamel, 3 inch White Porcelain Dial; Height 3½ inches; Width 4½ inches; One in a Box, Weight per Clock 2 lbs.

| | | Each |
|---|---|---|
| No DNP | Nickel Plated Case | $11 50 |
| No DPB | Polished Brass Case | 11 50 |
| No DBE | Black Enamel Case | 11 50 |

### NEW ORMOND

Heavy Brass Case; Finished in Polished Brass, Nickel Plated or Black Enamel, Fitted with Fine Quick Beat 8 Day Time Movement, Heavy Bevel Plate Glass Crystal, 3 inch White Porcelain Dial, Height 4 inches; Width 4 inches; One in a Box; Weight per Clock, 2¾ lbs. Each

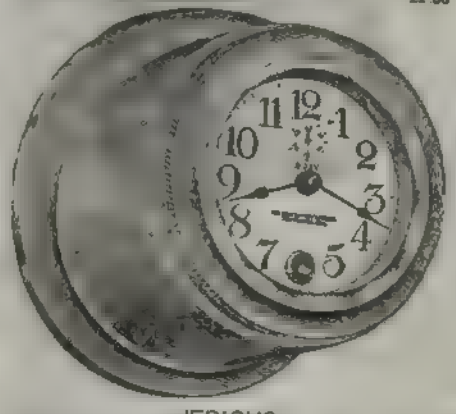
| | | |
|---|---|---|
| No NONP | Nickel Plated Case | $9 90 |
| No NOPB | Polished Brass Case | 9 90 |
| No. NOBE | Black Enamel Case | 9.90 |



### SAVANNAH

Fine Quick Beat 8 Day Time Movement; Case Finished in Polished Brass, Nickel Plated or Black Enamel, 3 inch White Porcelain Dial, Height 4 inches; Width 4½ inches, One in a Box, Weight per Clock 2¾ lbs.

| | | Each |
|---|---|---|
| No SNP | Nickel Plated Case | $10 50 |
| No SPB | Polished Brass Case | 10.50 |
| No. SBE | —Black Enamel Case | 10.50 |



### JERICHO

Light Brass Case; Finished in Polished Brass, Nickel Plated or Black Enamel, Fitted with Fine Quick Beat 8 Day Movement, Heavy Bevel Plate Glass Crystal, 3 inch White Porcelain Dial, Height 4 inches; Width 4 inches. One in a Box; Weight per Clock 2 lbs.

| | | Each |
|---|---|---|
| No. JPN | Nickel Plated Case | $9 35 |
| No JPB | Polished Brass Case | 9 35 |
| No JBE | —Black Enamel Case | 9 35 |

A. Locking Plate which Screws or Bolts to Dash Board and into which Clock Locks.

B. Screws or Bolts, Holding Locking Plate to Dashboard.

C. Bolt with Triangular Head (Requiring Special Key) which Locks Clock to Locking Plate.

D. End of Key to Lock Clock to Locking Plate.

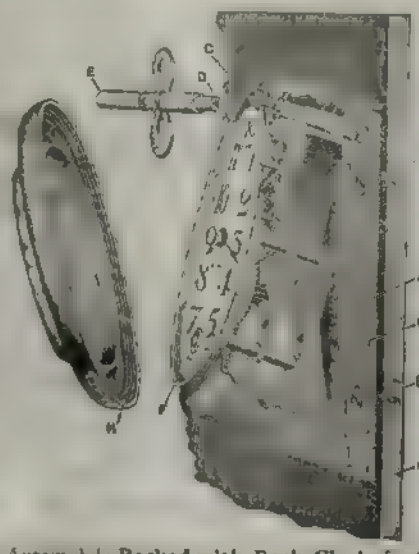
E. End of Key for Winding Clock.

F. Winding Arbor.

G. Back of Clock which Locks into Locking Plate.

H. Screw Bezel which makes Clock Dust and Water Proof.

I. Dashboard.




**NOTE.—A Card of Instructions for Winding Clock and Directions for Fastening Clock to Dashboard of Automobile Packed with Each Clock; Each Clock also Equipped with Key for Winding, and Screws, Nuts and Bolts for Fastening to Dashboard.**

# PIPE VISES

TOLEDO PIPE VISE

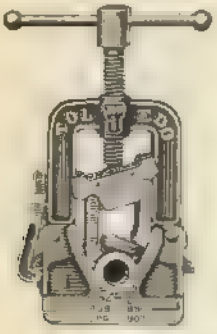


Fig 1341

MALLEABLE HINGED PIPE VISE

Fig 1342

ARMSTRONG HINGED PIPE VISE

Fig. 1343

SEVEN POUND STEEL PIPE VISE

Fig. 1344

## TOLEDO PIPE VISES

| Number | | 1 | 2 |
|---|---|---|---|
| Takes pipe | inches | ⅛ to 2½ | ⅛ to 4½ |
| Price | each | 10.00 | 20.00 |

## MALLEABLE HINGED PIPE VISES

| Number | | 1 | 2 |
|---|---|---|---|
| Takes pipe | inches | ⅛ to 2 | ⅛ to 3 |
| Price | each | 10.00 | 14.00 |

## ARMSTRONG HINGED PIPE VISES

| Number | | 0 | 1 | 2 | 3 |
|---|---|---|---|---|---|
| Takes pipe | inches | ⅛ to 2½ | ⅛ to 2½ | ⅛ to 4½ | ⅛ to 6 |
| Price | each | 8.00 | 10.00 | 20.00 | 36.00 |

## SEVEN POUND STEEL PIPE VISES

| Takes pipe | inches | ⅛ to 2 |
|---|---|---|
| Price | each | 4.50 |

Fig. 1345

## VULCAN CHAIN PIPE VISES

| Number | | 1 | 2 | 4 |
|---|---|---|---|---|
| Takes pipe | inches | ⅛ to 2 | ⅛ to 4 | ½ to 8 |
| Price, complete | each | 3.00 | 6.50 | 18.00 |
| " Jaws | per pair | 1.00 | 2.75 | 7.50 |
| " Chain with screws | each | 1.10 | 1.75 | 4.75 |
| " Screws | " | .30 | .35 | .70 |
| " Handles with nuts | " | .75 | 1.80 | 2.00 |
| " Nuts | " | .35 | .40 | 1.30 |
| " Washers | " | .15 | .25 | .45 |

# VISES

## PRENTISS BULLDOG SOLID JAW MACHINISTS' VISES

STATIONARY BOTTOM

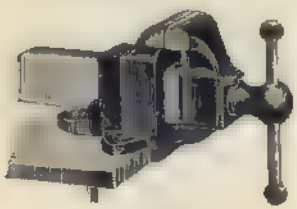


Fig. 1350

SWIVEL BOTTOM

Fig. 1351

### STATIONARY BOTTOM

| Number | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 |
|---|---|---|---|---|---|---|---|---|
| Width of jaw.....inches | 3¼ | 3⅝ | 4⅛ | 4⅝ | 5 | 5½ | 6 | 7 |
| Opens..... " | 4 | 5½ | 6 | 7 | 8 | 9 | 10 | 12 |
| Weight.....pounds | 22 | 28 | 42 | 52 | 72 | 100 | 135 | 210 |
| Price.....each | 6.00 | 7.00 | 8.50 | 10.00 | 13.00 | 16.50 | 25.00 | 37.50 |

### SWIVEL BOTTOM

| Number | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 |
|---|---|---|---|---|---|---|---|---|
| Width of jaw.....inches | 3¼ | 3⅝ | 4⅛ | 4⅝ | 5 | 5½ | 6 | 7 |
| Opens..... " | 4 | 5½ | 6 | 7 | 8 | 9 | 10 | 12 |
| Weight.....pounds | 28 | 36 | 52 | 64 | 85 | 115 | 155 | 235 |
| Price.....each | 7.50 | 8.75 | 10.80 | 12.50 | 16.00 | 22.00 | 30.00 | 42.50 |

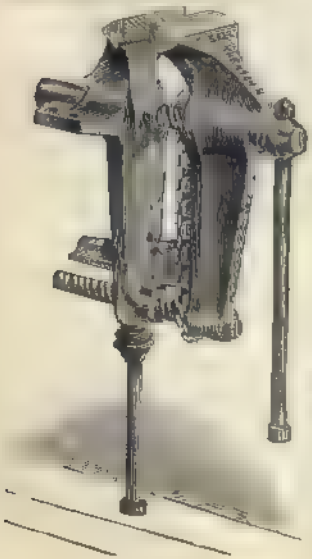


Fig. 1352

### FISHER PARALLEL LEG VISES

**Double Screw**

| Number | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| Width of jaw.....inches | 4½ | 5¼ | 6¼ | 7 | 8 |
| Depth " " ..... " | 1 | 1⅛ | 1¼ | 1½ | 1¾ |
| Opens..... " | 5½ | 6½ | 7½ | 9 | 12 |
| Diameter of screws " | 1⅛ | 1¼ | 1½ | 1¾ | 1⅞ |
| Length of lever... " | 13 | 16 | 19 | 24 | 26 |
| Weight.....pounds | 65 | 90 | 120 | 160 | 210 |
| Price.....each | 10.50 | 16.00 | 20.50 | 27.00 | 32.00 |

## COASTERS

Doz

No. 114—Length 42 inches; width 11 inches; full round spring shoes, handsomely varnished and decorated; three braces under top; extra brace at head; weight per dozen 116 lbs....$22 00

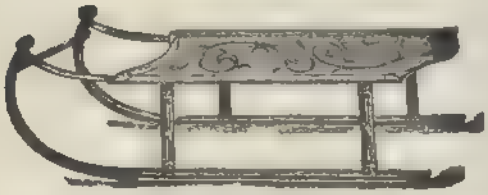
Packed, one-half dozen in crate

Doz

No. 120—Black Beauty; length 47 inches; width 13 inches; full round spring shoes; handsomely painted in black, with gilt ornamentation; three braces; weight per dozen 190 lbs....$41.00

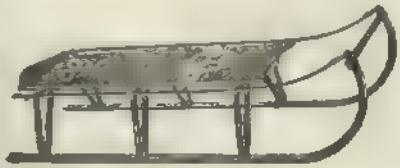
Packed, one-half dozen in crate

## STEEL SLEIGHS



No. 00

No. 07



No. 30

Doz.

No. 00—Length 27 inches; width 9 inches; height 6 inches; two knees; all steel except top; runners are made of round back angle steel; well painted; nicely decorated and varnished wood top; weight per dozen 65 lbs.....$12.00

No. 07—Length 29 inches; width 10 inches; height 6 inches; two knees; well braced so as to make them very strong and durable; all steel; running gears are finished in assorted colors; artistically striped; handsomely hand decorated wood top; weight per dozen 70 lbs ..... 15 00

No. 08—Length 32 inches; otherwise same as above; weight per dozen 75 lbs..... 17 00

Packed, one-sixth dozen in bundle

Doz.

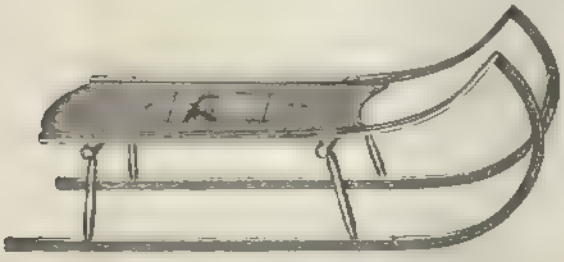
No. 10—Length 30 inches; width 12 inches; height 7½ inches, two knees, constructed with raves or braces, same as on the most expensive sleds; beams are made of channel steel running gears are finished in assorted colors, artistically striped; handsomely hand decorated wood top; weight per dozen 88 lbs. .....$17.00

No. 20—Length 33 inches; otherwise same as above; weight per dozen 90 lbs. ..... 20 00

No. 30—Length 36 inches; three knees; otherwise same as above; weight per dozen 100 lbs..... ..... 24 00

Packed, one-sixth dozen in bundle

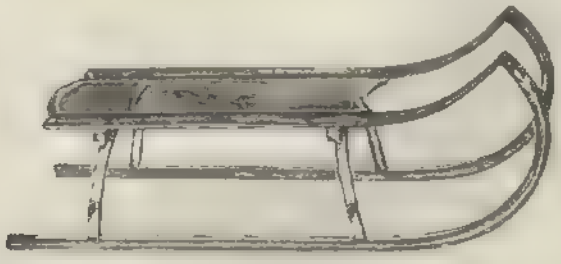
## WOOD SLEIGHS



Doz.

No. 50—Size 12x31 inches; varnished and ornamented; two straight knees; flat shoes; weight per dozen 42 lbs.....$ 5.00

Packed, one-sixth dozen in bundle



Nos. 36A and 36

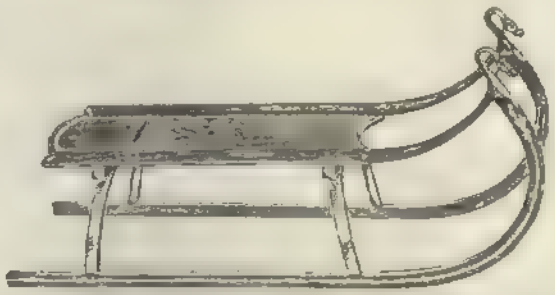
Doz.

No. 36A—Size 10x31 inches; varnished on the natural wood, with neatly painted top; two bent knees, flat shoes; weight per dozen 34 lbs. .....$ 5.20

No. 36—Size 12x33 inches; varnished on the natural wood; with neatly painted top; two bent knees; flat shoes; weight per dozen 46 lbs..... 6 00

No. 41—Size 15x33 inches; varnished and striped; top board painted and ornamented; round side fenders; two bent knees; with iron braces, half oval shoes; weight per dozen 63 lbs. ..... 12 50

Packed, one-sixth dozen in bundle



Doz

No. 36½—Size 12x33 inches; varnished on the natural wood; with neatly painted top; two bent knees dragon heads, flat shoes; weight per dozen 53 lbs.....$ 9 00

Packed, one-sixth dozen in bundle

No. 53

Doz.

No. 53—Size 15x33 inches; varnished and stenciled; top board painted and ornamented in brilliant colors; round side fenders; two bent knees; with iron braces; dragon heads; half oval shoes; weight per dozen 67 lbs.....$16 00

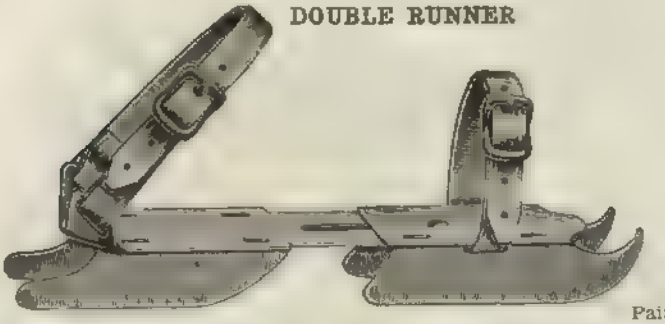
No. 55—Size 15x36 inches; varnished on the natural wood; fancy painted top; round side fenders; three bent knees; with iron braces; dragon heads; half oval shoes; weight per dozen 82 lbs ..... 17.00

No. 57—Size 15x36 inches; fine finish on wood; top board painted and ornamented; three bent knees; with round side fenders, firmly secured to runners by plated braces; dragon heads; half oval shoes, weight per dozen 87 lbs..... 22 00

Packed, one-sixth dozen in bundle.

## ICE SKATES

### DOUBLE RUNNER



Pair

No. 69—Double runner; polished steel; adjustable from a 6 to a 9-inch skate; with ½-inch russet straps, weight per pair 1½ lbs..... $ 0 44

Packed, one pair in box; twelve boxes in carton.

## ANKLE SUPPORTS

### BARNEY & BERRY

Pair

Model B—Grade 2; nickeled; russet leather strap; with nickeled band and slide loops; weight per pair 1 lb.....$ 1.20

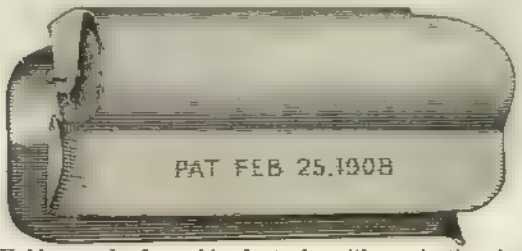
Packed, one pair in box.

## SKATE SHARPENERS

Doz.

File 'Em Quick—Square file; with blued spring steel holder; length 2 inches; width 1⅛ inches; weight per dozen 1¼ lbs $ 2.00

Packed, one dozen on display card.




Doz.

Perfect—Holder made from blued steel; with projecting lugs, thus giving an ideal grip; flexible guides; round wheel made from best emery and carborundum; length 2¾ inches; weight per dozen 1½ lbs..... $ 2.00

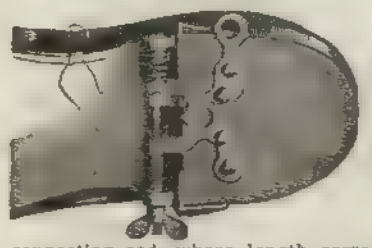
Packed, one dozen on display card.

## SKATE STRAPS

| | | | |
|---|---|---|---|
| No. 814—Length, inches | 12 | 18 | 24 |
| Width, inches | ⅝ | ⅝ | ⅝ |
| Weight per dozen, lbs. | ½ | ⅝ | ¾ |
| Dozen | $0 80 | 1.10 | 1 40 |

Packed, one dozen in bundle.

## ICE CREEPERS



Doz. Prs.

Rival—Has steel connecting rod, whose length corresponds to width of heel, 2¾ or 3¼ inches as required; with clamps and thumb screw; calk plate carrying steel points which are held in place by spring and notch on connecting rod and may be folded back under arch of foot when not needed to prevent slipping; weight per dozen pairs 3 lbs.....$ 3.50

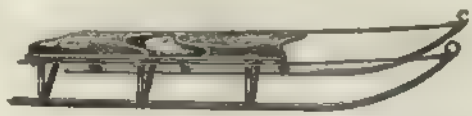
Packed, one dozen pairs in box.

## COASTERS

Doz.

No. 11—Length 32 inches; width 9 inches; height 4½ inches, all steel except the top; runners of round angle steel; painted blue; varnished and nicely decorated; weight per dozen 60 lbs. .....$12.00

Packed, two in bundle.



No. 4

Doz.

No. 1—Length 34 inches; width 10½ inches; height 4¼ inches, two knees; runners of round back angle steel; beams are channel steel; running gears finished in assorted colors; artistically striped; weight per dozen 75 lbs.....$16 00

No. 2—Length 37 inches; width 11½ inches; height 4½ inches; otherwise same as above; weight per dozen 90 lbs..... 18.00

No. 3—Length 40 inches; width 12 inches; height 4½ inches, otherwise same as above; weight per dozen 105 lbs..... 21.00

No. 4—Length 43 inches; width 12 inches; height 4½ inches; three knees; otherwise same as above; weight per dozen 125 lbs. ..... 24.00

Packed, two in bundle.

Doz

No 100A—Length 33 inches; width 10 inches, flat shoes; finished in natural wood; nicely varnished; top board painted and decorated; hand holes on side; weight per dozen 72 lbs. .....$ 4 30

No. 100—Length 37 inches; width 11 inches, otherwise same as above; weight per dozen 78 lbs. .. .. ... 5 00

No. 101—Length 37 inches; width 11 inches half oval shoes; otherwise same as above; weight per dozen 88 lbs . .. 6.50

No. 102—Length 37 inches; width 11 inches; full round spring shoes; otherwise same as above; weight per dozen 104 lbs ... .... .. ... . . . . . 8 50

No 105—Length 42 inches width 11 inches, full round spring shoes; otherwise same as above; weight per dozen 120 lbs.. 13 00

Packed, one-half dozen in crate

Doz

No. 107—Length 37 inches; width 14 inches; half-oval shoes; varnished on natural wood; fancy painted top; round side handles; weight per dozen 94 lbs.....$ 9.00

No. 108—Length 36 inches; width 13½ inches; full round spring shoes; otherwise same as above; weight per dozen 108 lbs. 12 00

No. 110—Length 42 inches; width 14 inches; otherwise same as above; weight per dozen 112 lbs... 16.50

Packed, one-half dozen in crate.

## POCKET COMPASSES

No. S1770

No. S1771

Brass, with ring; open face; divided card dial

| | | | | |
|---|---|---|---|---|
| No. S1770—Millimeters | 25 | 30 | 35 | 40 |
| Inches | 1 | 1⅛ | 1⅜ | 1½ |
| Weight per dozen, oz. | 4 | 5 | 6 | 6 |
| Dozen | $3 00 | 4 00 | 4 80 | 5 60 |

Brass, slip cover; divided card dial.

| | | | | |
|---|---|---|---|---|
| No. S1771—Millimeters | 25 | 30 | 35 | 40 |
| Inches | 1 | 1⅛ | 1⅜ | 1½ |
| Weight per dozen, oz. | 4 | 4½ | 5 | 6 |
| Dozen | $4.20 | 5.30 | 6.40 | 7.00 |

No. S1700

| | | | |
|---|---|---|---|
| No. S1700—Millimeters | 40 | 45 | 50 |
| Inches | 1½ | 1¾ | 2 |
| Weight per dozen, oz. | 16 | 24 | 30 |
| Dozen | $12.70 | 13 20 | 13.70 |

Brass, slip cover; silvered metal dial; no stop.

| | | | |
|---|---|---|---|
| No. S1709—Millimeters | 40 | 45 | 50 |
| Inches | 1½ | 1¾ | 2 |
| Weight per dozen, oz. | 16 | 24 | 30 |
| Dozen | $14.50 | 15 50 | 16.50 |

No. S1703

Brass, slip cover; silvered dial; stop for needle.

| | | | |
|---|---|---|---|
| No. S1703—Millimeters | 40 | 45 | 50 |
| Inches | 1½ | 1¾ | 2 |
| Weight per dozen, oz. | 16 | 24 | 30 |
| Weight per dozen, oz | $17.50 | 18 00 | 18 50 |

Brass, slip cover; silvered metal dial; stop for needle; with jeweled needle

| | | | |
|---|---|---|---|
| No. S1704—Millimeters | 40 | 45 | 50 |
| Inches | 1½ | 1¾ | 2 |
| Weight per dozen, oz. | 16 | 24 | 30 |
| Dozen | $21 00 | 22.00 | 23 00 |

No. S1702

No. S1705

| | | | |
|---|---|---|---|
| No. S1702—Millimeters | 40 | 45 | 50 |
| Inches | 1½ | 1¾ | 2 |
| Weight per dozen, oz. | 16 | 24 | 30 |
| Dozen | $20.00 | 21.00 | 22.00 |

LEEDAWL

White metal case; snap-in beveled crystal glass; unTarnishable silvered metal dial; jeweled needle with tempered steel point; screw stop.

| | Doz. |
|---|---|
| No. S1705—Diameter 1½ inches; weight per dozen 1 lb | $18 00 |

Brass, with ring and hinged cover; silvered metal dial; stop for needle; with jewel and degrees; 0 to 360.

| | | | |
|---|---|---|---|
| No. S1708—Millimeters | 40 | 45 | 50 |
| Inches | 1½ | 1¾ | 2 |
| Weight per dozen, oz. | 16 | 24 | 30 |
| Dozen | $29.00 | 29.50 | 30 00 |

Nickel plated; with ring and hinged cover; silvered dial; stop for needle, with jewel and degrees, 0 to 360.

| | | | |
|---|---|---|---|
| No. S1718—Millimeters | 40 | 45 | 50 |
| Inches | 1½ | 1¾ | 2 |
| Weight per dozen, oz. | 16 | 24 | 32 |
| Dozen | $34 00 | 35 00 | 36 00 |

Nickel hunting case; spring cover; silvered metal dial; degrees 0 to 90, jeweled heavy bar needle; automatic stop; best English make

| | | | |
|---|---|---|---|
| No. S1820—Millimeters | 40 | 45 | 50 |
| Inches | 1½ | 1¾ | 2 |
| Weight per dozen, oz. | 16 | 24 | 30 |
| Dozen | $66.00 | 70.00 | 74.00 |

# VISES

## PRENTISS BULLDOG SOLID JAW MACHINISTS' VISES

STATIONARY BOTTOM

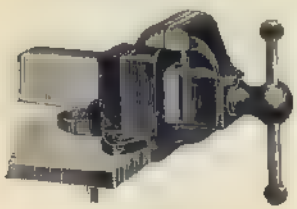


Fig. 1350

SWIVEL BOTTOM

Fig. 1351

### STATIONARY BOTTOM

| Number | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 |
|---|---|---|---|---|---|---|---|---|
| Width of jaw.....inches | 3¼ | 3⅝ | 4⅛ | 4⅝ | 5 | 5½ | 6 | 7 |
| Opens..... " | 4 | 5½ | 6 | 7 | 8 | 9 | 10 | 12 |
| Weight.....pounds | 22 | 28 | 42 | 52 | 72 | 100 | 135 | 210 |
| Price.....each | 6.00 | 7.00 | 8.50 | 10.00 | 13.00 | 16.50 | 25.00 | 37.50 |

### SWIVEL BOTTOM

| Number | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 |
|---|---|---|---|---|---|---|---|---|
| Width of jaw.....inches | 3¼ | 3⅝ | 4⅛ | 4⅝ | 5 | 5½ | 6 | 7 |
| Opens..... " | 4 | 5½ | 6 | 7 | 8 | 9 | 10 | 12 |
| Weight.....pounds | 28 | 36 | 52 | 64 | 85 | 115 | 155 | 235 |
| Price.....each | 7.50 | 8.75 | 10.80 | 12.50 | 16.00 | 22.00 | 30.00 | 42.50 |

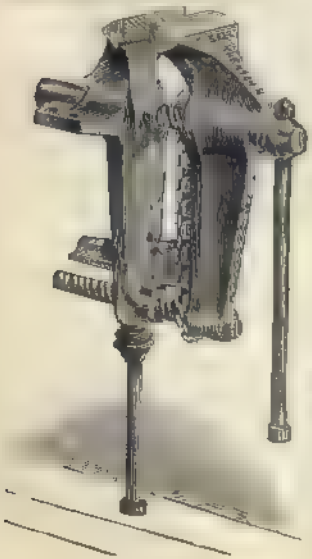


Fig. 1352

### FISHER PARALLEL LEG VISES

**Double Screw**

| Number | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| Width of jaw.....inches | 4½ | 5¼ | 6¼ | 7 | 8 |
| Depth " " ..... " | 1 | 1⅛ | 1¼ | 1½ | 1¾ |
| Opens..... " | 5½ | 6½ | 7½ | 9 | 12 |
| Diameter of screws " | 1⅛ | 1¼ | 1½ | 1¾ | 1⅞ |
| Length of lever... " | 13 | 16 | 19 | 24 | 26 |
| Weight.....pounds | 65 | 90 | 120 | 160 | 210 |
| Price.....each | 10.50 | 16.00 | 20.50 | 27.00 | 32.00 |

# "LITTLE GIANT" SCREW PLATES

Fig. 1563

| No. | Diameter of Dies, Inches | Length of Stock, Inches | No. of Taps in Wrench | Cutting Sizes | Price Each |
|---|---|---|---|---|---|
| A1 | 1¼ | 7½ | | | 6.50 |
| A2 | 1¼ | 7½ | | | 8.00 |
| A3 | 1¼ | 7½ | | | 10.50 |
| A10 | 1, 1⅛, 1⅝ | 7½, 13½ | 3 | | 11.50 |
| A12 | 1¼, 1⅝ | 7½, 13½ | 3 | | 12.75 |
| A14 | 1⅝ | 13½ | 3 | | 6.25 |
| 1 | 2 | 14½ | 5 | | 12.00 |
| 2 | 2¾ | 23 | | | 3.50 |
| 3 | 2¾ | 26 | | | 4.00 |
| 4 | 2¾ | 26 | | | 4.50 |
| 5 | 2¾ | 23 | | | 4.00 |
| 5½ | 2¾ | 23 | | | 15.50 |
| 6 | 2¾ | 26 | | | 33.00 |
| 7 | 2¾ | 26 | 3, 7 | | 5.50 |
| 7½ | 2¾ | 26 | 3, 7 | | 6.00 |
| 8 | 2, 2¾ | 14½, 26 | | | 18.00 |
| 9 | 2, 2¾ | 14½, 26 | 5, 7 | | 7.50 |
| 20 | 4 | 40 | 7, 9 | | 38.00 |
| 25 | 4, 5½ | 52 | 8 | | 45.00 |
| 30 | 4, 5½ | 52 | 8 | | 35.50 |
| 40 | 2¾, 4 | 23, 40 | 7, 11 | | 40.00 |
| 50 | 2¾, 4½ | 26, 52 | 9, 13 | | 60.00 |

## TAPS AND DIES

| Size...inches | ¼ | 1/4 | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1⅜ | 1½ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Taps...each | .35 | .45 | .50 | | | | | | | | | |
| Dies... " | 1.00 | 1.00 | 1.00 | | | | | | | | | |

## COLLETS

| Diameter . . . inches | | | | 2 | 2¾ | 4 | 4½ |
|---|---|---|---|---|---|---|---|
| For dies, size . . . inches | | | | | | | |
| Price, guides . . . each | | | | | | | |
| " Caps . . . " | | | | | | | |
| " Collets complete " | | | | | | | |

## STOCKS

| Length . . . inches | 7½ | | | | | | 52 |
|---|---|---|---|---|---|---|---|
| For collets...inches | 1¼ | ½ | ¾ | 2 | 2¾ | 4 | 4½ |
| Price . . . each | .70 | 1.25 | 1.50 | 2.00 | 2.00 | 3.00 | 8.00 |

V threads oversize furnished unless otherwise ordered.
V exact U. S. standard and Whitworth threads at same prices if so ordered.

# FIRE EXTINGUISHERS

PYRENE

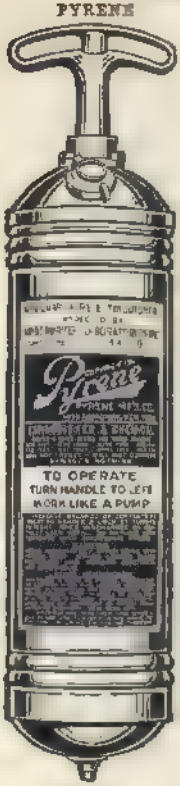



Fig 844

DIRIGO

Fig 846

## PYRENE EXTINGUISHERS

| | | |
|---|---|---|
| Length | inches | 14 |
| Diameter | inches | 3 |
| Weight, filled | pounds | 6 |
| Price, brass | each | 7 00 |
| " Nickel-plated | " | 8 00 |

Pyrene liquid is a chemical combination of purely organic materials, having a characteristic odor and a high specific gravity. It is confined in a cylinder actuating a powerful, easily operated cylindrical pump. As it reaches a flame, or even heated parts of the Pyrene liquid is converted into a dense white gas blanket, which settles down on the fire and smothers it instantly. Pyrene is non-damaging and non-corrosive. It is the only effective extinguisher of fires in highly inflammable material, particularly of gasoline or alcohol.

Pyrene does not freeze at 60° F. below zero and is good until used, because it does not deteriorate or evaporate, being enclosed in a sealed cylinder.

These extinguishers are readily refilled.

## DIRIGO DRY POWDER EXTINGUISHERS

| | | |
|---|---|---|
| Length | inches | 22 |
| Diameter | inches | 7½ |
| Price | each | 3 00 |

These extinguishers contain enough powder to extinguish any ordinary small fire

# FIRE PAILS, ETC.

GALVANIZED FIRE PAILS

Round Bottom

Fig. 846

Flat Bottom

Fig. 847

FIRE PAIL HOOKS

Fig. 848

## GALVANIZED FIRE PAILS -Round Bottom

| Capacity ..... quarts | 10 | 12 | 14 |
|---|---|---|---|
| Size ..... inches | 10¾ x 10½ | 11¼ x 11½ | 11¾ x 12 |
| Price, plain ..... per gross | 37.70 | 40.40 | 44.90 |
| " Stenciled ..... " | 40.70 | 43.40 | 47.90 |
| " " and banded ..... " | 43.70 | 46.40 | 50.90 |
| " Painted ..... " | 43.70 | 46.40 | 50.90 |
| " " and stenciled ..... " | 47.70 | 50.40 | 53.90 |

## GALVANIZED FIRE PAILS -Flat Bottom

| Capacity ..... quarts | 8 | 10 | 12 | 14 | 16 |
|---|---|---|---|---|---|
| Size ..... inches | 9¾ x 8½ | 10¾ x 9 | 11¼ x 10 | 11¾ x 10½ | 11¾ x 11½ |
| Price, stenciled ..... per gross | 28.80 | 33.20 | 35.90 | 40.40 | 48.00 |
| " " and banded ..... " | 31.50 | 36.20 | 38.85 | 43.35 | 50.95 |
| " Painted ..... " | 31.50 | 36.20 | 38.85 | 43.35 | 50.95 |
| " " and stenciled ..... " | 34.55 | 39.20 | 41.90 | 46.40 | 54.00 |

Galvanized fire pails are stenciled or stenciled and banded red; painted red outside or painted red outside and stenciled black.

Fire pails listed above are furnished with stamped ears and plain bails, but can be furnished with either wrought or malleable ears, and wood rims on bails when so ordered at an additional price.

## FIRE PAIL HOOKS

| | |
|---|---|
| Price ..... per dozen | 2.40 |

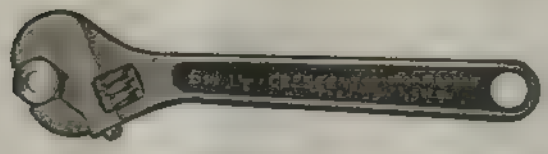
Fig. 849

## GALVANIZED OILY WASTE CANS

| Number | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Size ..... inches | 11¼ x 15 | 12 x 18 | 13 x 20 | 14 x 22 |
| Price ..... per dozen | 17.00 | 25.30 | 34.00 | 42.35 |
| Number | 5 | 6 | 7 | 8 |
| Size ..... inches | 16 x 24 | 18 x 26 | 20 x 28 | 24 x 36 |
| Price ..... per dozen | 50.80 | 76.00 | 101.25 | 133.20 |

# WRENCHES

## ADJUSTABLE ENGINEERS



Handle Drop Forged from Best Carbon Steel; The Movable Jaw from Special Alloy Steel, showing Four Times the Strength of ordinary Steel; The Entire Wrench is Carbonized, Hardened in Oil and Tempered; Polished all over except Web in Handle, which is Black Oil Finish.

**CRESCENT**

| Nos. | CA6 | CA8 | CA10 | CA12 | CA15 |
|---|---|---|---|---|---|
| Length, Inches | 6 | 8 | 10 | 12 | 15 |
| Capacity, inches | ¾ | 15/16 | 1⅜ | 1 9/16 | 1¾ |
| Weight per Dozen, lbs. | 4½ | 9 | 12 | 26 | 50 |
| Per Dozen | $7.80 | 9 60 | 12 00 | 15 00 | 19 20 |
| | **10.40** | **12.80** | **16.00** | **20.00** | **25 60** |

**STANDARD**

| Nos. | SA6 | SA8 | SA10 | SA12 |
|---|---|---|---|---|
| Length, inches | 6 | 8 | 10 | 12 |
| Capacity, inches | ¾ | 15/16 | 1⅜ | 1 9/16 |
| Weight per Dozen, lbs. | 4½ | 9 | 12 | 26 |
| Per Dozen | **$12 00** | **16 00** | **18 00** | **23 00** |

**Twelfth Dozen in a Box**

### WIZARD, ADJUSTABLE, RATCHET

**Can be Operated as an Ordinary Wrench or as a Right or Left Ratchet Wrench; by Simply Giving the Knob in Handle a Half Turn, the Ratchet is Reversed; When Applied to a Nut, the Wrench Need not be Lifted until the Nut is Turned as Much as Desired. The Opening of Jaw is Adjusted by Turning the Nut on Side of Head; Especially Adapted for Use in Close Quarters; a Perfect Tool for Use Around Automobiles, Engines and Machinery of all Kinds; Plated Nuts are not Marred by this Wrench, Every Wrench Guaranteed.**

Per Dozen

**No. 165—Jaws Open to 1 inch; Best Grade Drop Forged Steel; Hardened Jaws, Full Polished, Mottled Finish; Length Over All 8 inches, Weight per Dozen 25 lbs.** **$27.00**

Twelfth Dozen in a Box, One Dozen in a Case.

### *DIAMOND EDGE, ADJUSTABLE "S"

Drop Forged, Polished and Tempered Steel; Jaws; Japanned Malleable Iron Handle; Cast Steel Screw.

| Nos. | DEA6 | DEA8 | DEA10 |
|---|---|---|---|
| Length, Inches | 6 | 8 | 10 |
| Opens, Inches | ¾ | 1 | 1⅜ |
| Weight per Dozen, Lbs. | 5½ | 14 | 23 |
| Per Dozen | **$10 80** | **13.20** | **16 80** |

### BAXTER "S"

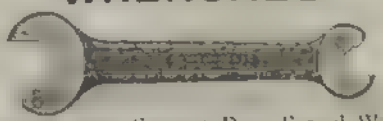
Full Polished Cast Steel; Case Hardened Jaws; Made in Two Parts and Adjusted by Knurled Screw.

| Nos. | B4 | B6 | B8 | B10 |
|---|---|---|---|---|
| Length, Inches | 4 | 6 | 8 | 10 |
| Opens, Inches | ¼ to ¾ | ¼ to 1 | ¼ to 1¼ | ¼ to 1¼ |
| Weight per Dozen, Lbs. | 8 | 10 | 15 | 30 |
| Per Dozen | **$8 00** | **9.00** | **12.00** | **18 00** |
| | **5 50** | **8.00** | **11.00** | **16 00** |

Half Dozen in a Box.

*DIAMOND EDGE IS A QUALITY PLEDGE*

# WRENCHES



The Ratcho Wrench will do everything that a Double Ended Straight Drop Forged Wrench can do and with thrice the Speed. Without Mechanism of any kind you get "Ratchet results" from a solid Tool. The round Jaw rolls off of the Flat Side of a Nut and releases the Jaw from opposite Flat during same movement, a great time saving feature on the idle stroke. Reversible by simply turning Tool over.

## DROP FORGED. FULL FINISH

| For Nuts | | | | | | |
|---|---|---|---|---|---|---|
| Numbers | 1125 | 1127 | 1128 | 1129 | 1134 | 1136 |
| Openings, Inches | ⅛-19/32 | 19/32-11/16 | 19/32-25/32 | 11/16-25/32 | ⅞-1 | 1-1¼ |
| For Nuts, Bolt Sizes | ¼-⅜ | ⅜-½ | ½-⅝ | ⅝-¾ | ⅞-1 | 1-1¼ |
| Length, Inches | 4¾ | 5¾ | 6⅝ | 8 | 11 | 14 |
| Weight per Doz. lbs | 2½ | 3¾ | 5 | 6 | 14 | 22 |
| Per Dozen | $4 32 | 5.28 | 6.24 | 9.60 | 12.24 | |
| | 6 25 | 7.75 | 8.25 | 9 25 | 18 75 | 17 75 |

Half Dozen in a Box.

| For Cap Screws | | | | | | |
|---|---|---|---|---|---|---|
| Numbers | 1725 | 1727 | 1729 | 1734 | 1735 | 1736 |
| Openings, Inches | ⅜-½ | ⅝-⅝ | ⅝-¾ | ⅞-1⅛ | 1-1⅛ | 1-1¼ |
| For Cap Screws | ¼-⅜ | ⅜-½ | ½-⅝ | ⅝-¾ | ¾-⅞ | ⅞-1 |
| Length, Inches | 4¾ | 5¾ | 6⅝ | 8⅞ | 11 | 11 |
| Weight per Doz. lbs | 2¼ | 3½ | 5 | 14 | 14 | 22 |
| Per Dozen | $4 32 | 5.28 | 6.24 | 9.60 | 10 56 | 12 24 |
| | 6 25 | 7 75 | 9 00 | 18 75 | 15 25 | 17 75 |

Half Dozen in a Box.

## MOSSBERG

Semi-Finished, Pressed Steel, Hardened and Tempered; Openings in each Wrench are Machined to Sizes Listed. Per Set

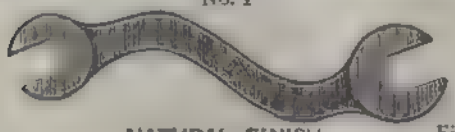
**No. 1**—Set contains Five Wrenches, Sizes ¼, 7-16, 9-16, ⅝, ¾, ⅞ and 1 inch A. L. A. M. Standard Milled Openings ..... $1.00

One Set in a Box.

**No. 1R**—In Canvas Roll; Otherwise Same as No. 1. 1.30

Weight per Dozen Sets 24 lbs.

No. 1



## *DIAMOND EDGE

Finest Quality Drop Forged Steel.

### NATURAL FINISH

Case Hardened, Milled Jaws

| Nos. | DE10 | DE15 | DE20 | DE25 | DE30 |
|---|---|---|---|---|---|
| Openings, Inches | 3/16-¼ | ¼-5/16 | 5/16-⅜ | ⅜-7/16 | 7/16-½ |
| Length, Inches | 6¼ | 7⅛ | 8¼ | 9¼ | 10⅜ |
| Thickness, Inches | 7-32 | ¼ | 5-16 | ⅜ | 7-16 |
| Fits Nuts, Bolt Size, In. | 3-16-¼ | ¼-5-16 | 5-16-⅜ | ⅜-7-16 | 7-16-½ |
| Weight per Dozen, Lbs | 2 | 4 | 6 | 10 | 15 |
| Per Dozen | $1 75 | 2 50 | 3.50 | 4.50 | 6 50 |

Half Dozen in a Box

### IN SETS

Five Wrenches; One Each DE10, DE15, DE20, DE25, DE30

Per Dozen Sets

**No. DE35**—In Box; One Set; Weight per Dozen Sets 37½ lbs ..... $14.00

**No. DER35**—In Canvas Roll; One Set; Weight per Dozen Sets 30 lbs ..... 17 50

One Set in a Box

### NICKEL PLATED

Case Hardened, Milled Jaws

| Nos. | DEN10 | DEN15 | DEN20 | DEN25 | DEN30 |
|---|---|---|---|---|---|
| Openings, Inches | 3/16-¼ | ¼-5/16 | 5/16-⅜ | ⅜-7/16 | 7/16-½ |
| Length, Inches | 6¼ | 7⅛ | 8¼ | 9¼ | 10⅜ |
| Thickness, Inches | 7-32 | ¼ | 5-16 | ⅜ | 7-16 |
| Fits Nuts, Bolt Size, In. | 3-16-¼ | ¼-5-16 | 5-16-⅜ | ⅜-7-16 | 7-16-½ |
| Weight per Dozen, Lbs | 2 | 4 | 6 | 10 | 15 |
| Per Dozen | $3 50 | 4 50 | 5.50 | 7.00 | 8 00 |

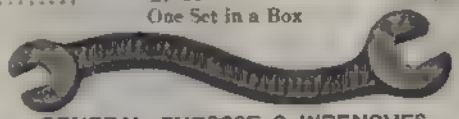
### IN SETS

Five Wrenches; One Each DEN10, DEN15, DEN20, DEN25, DEN30

Per Dozen Sets

**No. DEN35**—In Box; One Set; Weight per Dozen Sets 37½ lbs. $27 00

**No. DENR35**—In Canvas Roll; One Set; Weight per Dozen Sets 30 lbs ..... 33 00



## GENERAL PURPOSE S WRENCHES

For Use in Erecting or Dismantling Plows, Carriages, Wagons, Farm Implements, etc., and for General Service where a Light and Long Wrench is Desired. Drop Forged Steel. Natural Finish.

### STRAIGHT SIZES

| Nos. | D100 | D101 | D102 | D103 | D104 |
|---|---|---|---|---|---|
| Openings, Inches | 3/16-7/16 | 1/4-9/16 | 5/16-11/16 | 3/8-13/16 | 7/16-1 |
| Length, Inches | 6¼ | 7⅛ | 8¼ | 9¼ | 10⅜ |
| Thickness, Inches | 7-32 | ¼ | 5-16 | ⅜ | 7-16 |
| Fits Nuts, Bolt Size, In. | 3-16-¼ | ¼-5-16 | 5-16-⅜ | ⅜-7-16 | 7-16-½ |
| Weight per Dozen, Lbs | 2 | 4 | 6 | 10 | 15 |
| Per Dozen | $1 70 | 2 00 | 3 00 | 3 50 | 4 00 |

### IN SETS

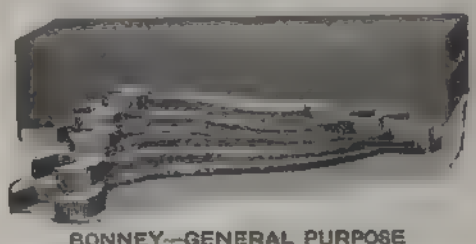
Five Wrenches; One Each D100, D101, D102, D103, D104

Per Dozen Sets

**No. D105**—In Box; One Set; Weight per Dozen Sets 36 lbs. $13 50

**No. DR105**—In Canvas Roll; One Set; Weight per Dozen Sets 37½ lbs ..... 13 50

Half Dozen in a Box



## BONNEY—GENERAL PURPOSE

Malleable Iron; Natural Finish.

Per Set

**No. MGP** Set contains Five Wrenches, Sizes ¾, 1/4, 9-16, ⅝, 11-16, ¾, ⅞, 13-16, 1 and 1⅛ A. L. A. M. Standard Milled Openings ..... $0 80

One Set in a Box.

**No. MGPR**—In Canvas Roll; otherwise same as No. MGP..... $1 10

Weight per Dozen Sets 45 lbs.

## MALLEABLE—GENERAL SERVICE

Extra Heavy Pattern; Natural Finish; No Duplicate Openings.

Per Set

**No. 800**—Set consists of Three Wrenches with Openings Milled for ½, ⅝, ¾, ⅞, 1 and 1⅛ U. S. Standard Nuts and Cap Screws ..... $0 50

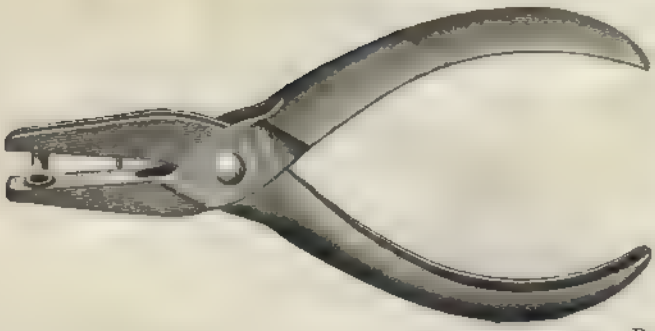
One Set in a Box.

**No. 800R**—In Canvas Roll; otherwise same as No. 800... 1 00

Weight per Dozen Sets about 8 lbs.

*"DIAMOND EDGE IS A QUALITY PLEDGE"*

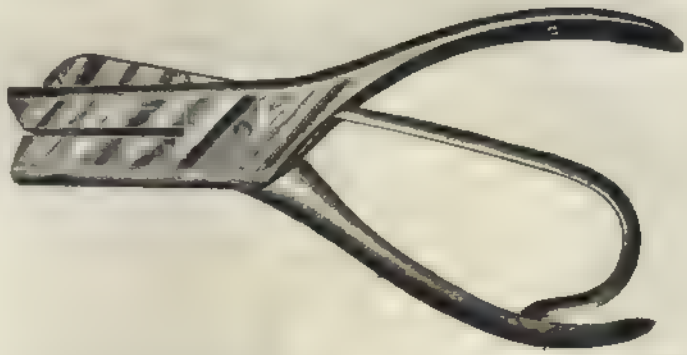
## TICKET PUNCHES



Doz.

No. K350P—Polished finish; round dies; coppered steel spring; length 4½ inches; weight per dozen 1½ lbs.. .. ..$ 1 80

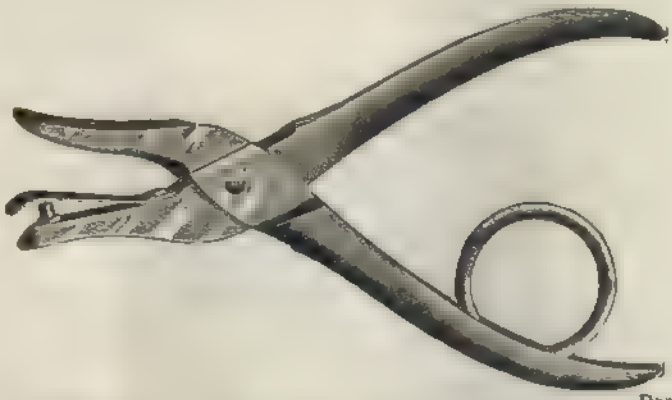
Packed, one dozen in cardboard box.



Doz.

No. K12P—Nickel plated; inclosed style; assorted dies; steel spring; length 4½ inches; weight per dozen 1⅛ lbs. ....$ 6 00

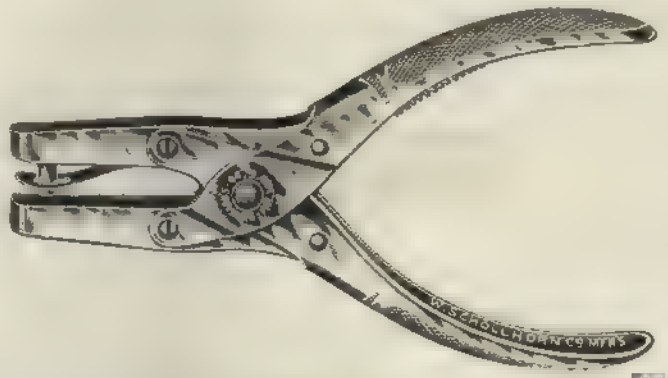
Packed, one-half dozen in cardboard box



Doz

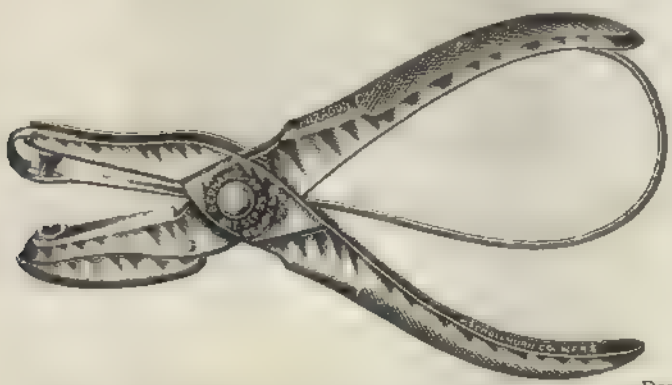
No. K250P Nickel plated; assorted dies; milled handles; steel spring; length 5 inches; weight per dozen 2 lbs.....$ 3.50

Packed, one-half dozen in cardboard box.



No. K9P—Nickel plated; assorted dies; nickel plated steel coil spring; length 5 inches; very durable punch for railway companies; weight per dozen 3 lbs.....$13 50

Packed, one-half dozen in cardboard box.



Doz

No. K260P -Nickel plated; assorted dies; milled handles; steel spring; length 5 inches; has small pocket to catch clippings; weight per dozen 2 lbs ..... $ 4 00

Packed, one-half dozen in cardboard box

Doz.

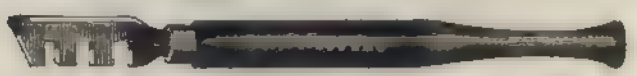
No. K7½P—Especially adapted for use by railway companies, very durable; assorted dies; nickel plated flat steel spring; dental nickel plated throughout; length 4¾ inches; weight per dozen 3 lbs. .....$20 00

Packed, one half dozen in cardboard box

## GLASS CUTTERS

No. K7C—Full heavily nickel plated, ball end; length 6 inches, weight per dozen 1 lb ... Doz $ 1.10

Packed one dozen in cardboard box



No. K20—Cocobolo handle; heavily nickel plated ferrule; polished steel head; length 6⅞ inches; weight per dozen ¾ lb. .....$ 1.30 Doz

Packed, one dozen in cardboard box.

No. K551—Red Devil 3-inch; all metal; three wheels, which will cut any grade of window, plate, rough, smoked and wire glass; red enameled handle, polished steel head; length 4⅞ inches; weight per dozen 1⅝ lbs.....$ 4.00 Doz.

Packed, one in glove kid snap button case; one dozen in carton.

# SPIKES

## TRACK SPIKES

REGULAR

Fig. 1052

REVERSE POINT

Fig. 1053

## BOAT SPIKE

Fig. 1054

## RAILROAD SPIKES

| Size under Head Inches | Average Number per Keg of 200 Pounds | Ties 2 Feet between Centers 4 Spikes per Tie Makes per Mile Pounds | Ties 2 Feet between Centers 4 Spikes per Tie Makes per Mile Kegs | Rail Used Weight per Yard Pounds |
|---|---|---|---|---|
| 5½ x ⅞ | 360 | 5921 | 29⅗ | 45 to 100 |
| 5 x ⅞ | 405 | 5230 | 26 | 40 " 50 |
| 4½ x ⅞ | 460 | 4608 | 23 | 35 " 40 |
| 5 x ¾ | 475 | 4460 | 22⅜ | 35 " 40 |
| 4½ x ¾ | 518 | 4080 | 20⅖ | 28 " 35 |
| 4 x ¾ | 605 | 3515 | 17½ | 24 " 35 |
| 3½ x ¾ | 670 | 3180 | 15⅞ | 20 " 30 |
| 4½ x ⅝ | 690 | 3000 | 15 | 20 " 30 |
| 4 x ⅝ | 780 | 2730 | 13⅝ | 20 " 30 |

| Size under Head Inches | Average Number per Keg of 200 Pounds | Ties 2 Feet between Centers 4 Spikes per Tie Makes per Mile Pounds | Ties 2 Feet between Centers 4 Spikes per Tie Makes per Mile Kegs | Rail Used Weight per Yard Pounds |
|---|---|---|---|---|
| 3½ x ⅞ | 800 | 2377 | 12 | 16 to 25 |
| 4½ x ⅝ | 930 | 2530 | 12⅝ | 16 " 25 |
| 4 x ⅝ | 1025 | 2744 | 13½ | 16 " 25 |
| 3½ x ⅝ | 1250 | 3740 | 8½ | 16 " 20 |
| 3 x ⅝ | 1380 | 1502 | 8 | 16 " 20 |
| 2½ x ⅝ | 1650 | 1280 | 6½ | 12 " 16 |
| 3 x ⅝ | 1880 | 1152 | 5¾ | 12 " 16 |
| 2½ x ½ | 2230 | 948 | 4¾ | 8 " 12 |
| ..... | .... | .. | ... | .. |

## RAILROAD SPIKES Extra Over Base, per 100 Pounds

| | | | |
|---|---|---|---|
| ¼-inch square, | 2 to 2½ inches long | 1.00 | ⅝-inch square, 3 inches long..... | .30 |
| ¼ " " | 3 inches long..... | .85 | ⅝ " " 3½ to 4½ inches long | .20 |
| ⅝ " " | 2 " " ..... | .80 | ½ " " 2½ inches long..... | .20 |
| ⅜ " " | 2½ to 4 inches long | .60 | ½ " " 3 to 5 inches long... | .10 |
| ⅜ " " | 2 inches long..... | .50 | ⅝ " " 4½ to 5½ inches long | Base |
| ⅜ " " | 2½ " " ..... | .40 | Reverse points..... | ¼c |
| ⅜ " " | 3 to 4½ inches long | .30 | ..... | ... |

## NUMBER OF BOAT SPIKES TO 200-POUND KEG

| Square Inches | Length, Inches | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 16 |
| ¼ | 3300 | 2887 | 2343 | 2200 | 2030 | 1828 | 1624 | 1420 | 1220 | . | . | ... | . | ... |
| ⅝ | . | . | 1671 | 1364 | 1408 | 1175 | 1115 | 988 | 849 | .... | ... | .... | . | ... |
| ⅜ | . | | .... | 1039 | 935 | 880 | 710 | 665 | 602 | 519 | 468 | 410 | . | ... |
| ⅞ | . . | | | . . | . | .. | 562 | 516 | 453 | 409 | 369 | 302 | | ... |
| ½ | . . | | . . | . . | . | .. | 433 | 400 | 337 | 305 | 297 | 241 | 216 | 182 |
| ⅝ | . . | | . | . . | | | . | . | | | 182 | 155 | 130 | 122 |
| ¾ | . . | . | | . . | | . | . | | | . | . | . | 95 | 80 |

## BOAT SPIKES—Extra Over Base, per 100 Pounds

| | | | |
|---|---|---|---|
| ¼-inch square, | 3 to 3½ inches long | 1.00 | ⅜ inch square, 4 to 12 inches long | .30 |
| ¼ " " | 4 " 8 " " " | .75 | ⅞ " " 6 " 12 " " " | .20 |
| ⅝ " " | 3½ inches long..... | .70 | ½ " " 6 " 12 " " " | .15 |
| ⅝ " " | 4 to 8 " " ..... | .45 | ⅝ " " 8 " 14 " " " | .15 |
| ⅜ " " | 3 " 3½ inches long | .55 | . . . . . | . |

# HOT-PRESSED AND FORGED SQUARE AND HOT-PRESSED HEXAGON NUTS

SQUARE

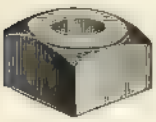


Fig. 1055

HEXAGON

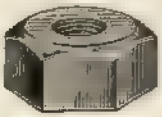


Fig. 1056

## UNITED STATES STANDARD LIST

| Width Inches | Thickness Inches | Hole Inches | Size of Bolt Inches | Hot Pressed and Forged Square Nuts — Price in 200-Pound Kegs, Cents per Pound | | Hot Pressed and Forged Square Nuts — Average Number in One Keg | | Hot Pressed Hexagon Nuts — Price in 200 Pound Kegs Cents per Pound | | Hot Pressed Hexagon Nuts — Average Number in One Keg | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Blank | Tapped | Blank | Tapped | Blank | Tapped | Blank | Tapped |
| 7/16 | 1/4 | 3/16 | 1/4 | 13 | 15. | 13800 | 14760 | 20. | 22 5 | 17400 | 18600 |
| 1/2 | 5/16 | 1/4 | 5/16 | 12 | 13 5 | 7400 | 7915 | 18 | 20 | 9200 | 9760 |
| 9/16 | 5/16 | 1/4 | 3/8 | 11 5 | 12 6 | 5000 | 5320 | 14. | 15 6 | 6000 | 6400 |
| 5/8 | 3/8 | 5/16 | 3/8 | 11 | 11 9 | 3200 | 3400 | 13. | 14 3 | 4000 | 4250 |
| 7/8 | 7/16 | 5/16 | 1/2 | 9 | 9 7 | 2400 | 2540 | 11.2 | 12 2 | 3000 | 3200 |
| 15/16 | 7/16 | 3/8 | 1/2 | 9 | 9 6 | 1600 | 1690 | 11.2 | 12 1 | 2128 | 2275 |
| 1 1/16 | 1/2 | 3/8 | 5/8 | 8 7 | 9 2 | 1360 | 1440 | 10.5 | 11 2 | 1540 | 1630 |
| 1 1/8 | 9/16 | 3/8 | 3/4 | 8 5 | 8 9 | 832 | 880 | 10. | 10.6 | 998 | 1050 |
| 1 1/16 | 5/8 | 3/8 | 7/8 | 8.4 | 8 8 | 544 | 578 | 9.9 | 10.5 | 628 | 665 |
| 1 5/8 | 1 | 3/8 | 1 | 8.4 | 8 8 | 376 | 397 | 9.9 | 10 5 | 436 | 460 |
| 1 1/4 | 1 1/8 | 3/8 | 1 1/8 | 8.4 | 8 8 | 268 | 284 | 9 9 | 10 5 | 288 | 305 |
| 2 | 1 1/4 | 1 1/4 | 1 1/4 | 8.4 | 8 8 | 206 | 220 | 9.9 | 10.5 | 250 | 260 |
| 2 1/16 | 1 3/8 | 1 5/16 | 1 3/8 | 8.5 | 9 | 146 | 157 | 10. | 10.7 | 182 | 190 |
| 2 3/8 | 1 1/2 | 1 5/16 | 1 5/8 | 8 8 | 9 4 | 120 | 127 | 10 3 | 11.1 | 144 | 150 |
| 2 15/16 | 1 5/8 | 1 5/16 | 1 7/8 | 9 | 9 7 | 95 | 100 | 10 5 | 11.4 | 116 | 120 |
| 2 1/4 | 1 3/4 | 1 1/2 | 2 1/4 | 9 3 | 10 | 74 | 77 | 10 8 | 11.7 | 95 | 100 |
| 2 1/16 | 1 7/8 | 1 5/8 | 2 3/8 | 9 8 | 10 3 | 64 | 67 | 11. | 12. | 80 | 84 |
| 3 1/8 | 2 | 1 3/4 | 2 | 9 7 | 10 9 | 53 | 56 | 11 2 | 12 3 | 62 | 65 |
| 3 5/16 | 2 1/8 | 1 7/8 | 2 1/8 | 10 | 11 | 43 | 45 | 11 7 | 12.9 | 52 | 54 |
| 3 1/2 | 2 1/4 | 1 7/8 | 2 1/4 | 10. | 11 1 | 36 | 37 | 11 7 | 13. | 44 | 46 |
| 3 11/16 | 2 3/8 | 2 1/16 | 2 3/8 | 10.3 | 11 5 | 28 | 29 | 12 2 | 13.6 | 35 | 36 |
| 3 7/8 | 2 1/2 | 2 1/16 | 2 1/2 | 10.5 | 11 8 | 24 | 25 | 12 4 | 13 9 | 32 | 33 |
| 4 1/4 | 2 3/4 | 2 1/16 | 2 3/4 | 11. | 12 4 | 21 | 22 | 13. | 14 6 | 27 | 27 |
| 4 5/8 | 3 | 2 5/16 | 3 | 11.5 | 13 | 16 | 17 | 13 5 | 15 2 | 18 | 18 |

For less than keg lots (200 pounds) of a size, add 20 cents per cwt. for 100 pounds or over; 50 cents per cwt. for less than 100 pounds.

# FIELDERS' GLOVES

## REACH

No. SR0BL

No. SR0B

No. SR02

No. SR00W

No. SR04

**The Following Numbers Listed Below are Carried in Stock for Right Hand Also: Nos SR0BL, SR0B, SR00W, SR56, SRSWN, SR3GN, SR2G, SR10G, SR18N and SR24. If Any of These Are Wanted for Right Hand, Suffix Letter R to Regular Number.**

Doz.

**No SR0BL** Reach Special, drab Reaco buckskin leather lined and welted; requires no breaking in; large little fingers; thumb web; equipped with Reach patent diverted seam, buttoned back, weight per dozen 10 lbs; retail price $3.50 each . . . . . $56 00

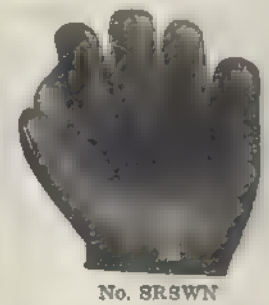
**No. SR0B** Felt lined, welted seams, otherwise same as No SR0BL, retail price $3.00 each . . . . . 48 00

**No. SR02** Finest brown Reaco calfskin leather lined, black leather binding and welt; otherwise same as No. SR0BL; retail price $3.00 each . . . . . 48.00

**No. SR00W** Reach Special; selected mouse colored Reaco buckskin padded with best asbestos felt; full leather lined, white welted seams and binding, large little finger, thumb web, buttoned back, weight per dozen 8½ lbs; retail price $2.50 each . . . . . 42 00

**No. SR04** Selected pearl colored Reaco calfskin, full leather lined, requires no breaking in, padded with best felt, welted seams, web thumb, patent inside hump and deep pocket, weight per dozen 9 lbs; retail price $2.50 each . . . . . 42 00

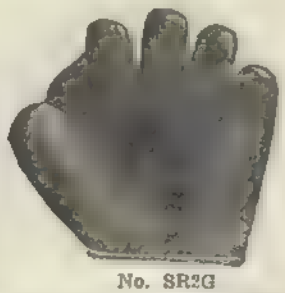
No. SR56



No. SRSWN

No. SR3GN

No. SR9G



No. SR2G

Doz.

**No. SR56** Selected mouse colored buckskin; full leather lined; padded with best asbestos felt, brown welted seams and binding, buttoned back, thumb web, patent inside hump, deep pocket, weight per dozen 9½ lbs., retail price $2.00 each . . . . . $32 40

**No. SRSWN** Selected black Reaco leather, full leather lined, padded with best asbestos felt, made on large model with large little finger, red welted seams and binding, thumb web, deep pocket, buttoned back, weight per dozen 10 lbs., retail price $2.00 each . . . . . 32 00

**No. SR3GN** Made of excellent quality black tan grain leather, full leather lined, padded with good asbestos felt, brown welted seams and binding, large little finger, thumb web, deep pocket, buttoned back, weight per dozen 8½ lbs., retail price $1.50 each . . . . . 25 20

**No. SR9G** Made of fine mouse colored leather, full leather lined, asbestos felt padded, large little finger, welted seams; thumb web; deep pocket, buttoned back, weight per dozen 9 lbs.; retail price $1.50 each . . . . . 24.00

**No. SR2G** Made of finest mouse colored leather; leather lined palm; asbestos felt padded, welted seams; thumb web, patent hump; deep pocket; large little finger, buttoned back, weight per dozen 9½ lbs.; retail price $1.25 each . . . . . 20 00

No. SR59

No. SR10G

No. SR54N

No. SR18S

No. SR25

Doz

**No. SR59**—Olive tan leather; red leather binding and welt; full felt lining; half leather palm lining; thumb web; buttoned back, a very desirable glove; weight per dozen 8½ lbs.; retail price $1.00 each... $16.00

**No. SR10G**—Fine brown tan leather; white leather binding and welt; leather lined palm, padded with best felt, thumb web, large little finger; deep pocket; buttoned back; weight per dozen 8 lbs.; retail price $1.00 each . . . . . 16.00

**No. SR54N** Black tan leather, welted seams, leather palm lining; good grade of felt padding, patent inside hump, deep pocket, web thumb; weight per dozen 8 lbs; retail price 75 cents each. . . . . 12.00

**No. SR18S** Pearl colored leather, welted seams; leather palm lining; felt padded, patent inside hump, deep pocket; web thumb; weight per dozen 4 lbs; retail price 50 cents each. . . . . 8 50

**No. SR18N** Black tan leather, white binding; otherwise same as No SR18S . . . . . 8 00

**No. SR24** Boys' brown tan leather; white binding, felt padded, leather palm lining, thumb web, deep pocket; buttoned back, weight per dozen 2½ lbs; retail price 25 cents each . . . . . 4 00

**No. SR25**—Craven tan leather, otherwise same as No. SR24—retail price 25 cents each . . . . . 3 60

Packed, Nos SR54N SR18S and SR18N, three in box, Nos SR24 and SR25, six in box all others, one in box

**NOTE—Nos. SR0BL to SR10G are in sizes 13 to 16; (size 13 is small, size 16 large).**

## BASEMEN'S AND FIELDERS' MITTS

### REACH

No. SR3

No. SR4P

No. SR4L

No. SRRN

No. SR2R

**BASEMEN'S** — Doz.

**No. SR3**—Reach Special; adapted to first base work; finest drab Reaco buckskin; patent hinged asbestos felt hand formed pad; leather laced edge and thumb; special inside hump and deep pocket; buckled back; weight per dozen 15 lbs., retail price $4 00 each..... $66.00

**No. SR3-R**—Same as above except for right hand ..... 66.00

**No. SR4P** Black Reach Gauntlet, adapted to first base work; patent hinged asbestos felt hand formed pad; leather laced edge and thumb, special inside hump and deep pocket; buckled back; weight per dozen 15 lbs.; retail price $4 00 each..... 66 00

**No. SR4L** Reach Shutter, heavy ecru calfskin, adapted to first base work, patent hinged asbestos felt hand formed pad; laced edge and thumb special inside hump and deep pocket, buckled back, weight per dozen 15 lbs., retail price $3 33 each..... 50 40

**No. SR4L-R** Same as above except for right hand ..... 50 40

**No. SRRN** Reach Grabber face of black calfskin back and lining of black tan leather, brown binding, adapted to first base work patent hinged asbestos felt hand formed pad, leather laced edge and thumb special inside hump and deep pocket, buckled back, weight per dozen 14 lbs.; retail price $2.00 each..... 32 00

**No. SRRN-R**—Same as above except for right hand ..... 32.00

**No. SR2R** Fine brown tan leather; adapted to first base work; patent hinged asbestos felt hand formed pad, laced edge and thumb; special inside hump and deep pocket, buckled back, weight per dozen 12 lbs; retail price $1 50 each ..... 24 00

Packed, one in box.

No. SR3RN

No. SR7F

**BASEMEN'S** — Doz.

**No. SR3RN**—Fine black tan leather; wine binding; adapted to first base work good quality felt padding laced edge and thumb; deep pocket; inside hump; laced back; weight per dozen 9 lbs retail price $1 00 each..... $16.00

**No. SR3RN-R**—Same as above except for right hand 16 00

**FIELDERS'** — Doz.

**No. SR7F**—Professional pattern; fine pearl colored calfskin face; brown leather back; padded with best asbestos felt; buckled back, patent laced thumb connection, deep pocket, weight per dozen 7½ lbs.; retail price $1.00 each..... $16.80

**No. SR7F-R** Same as above except for right hand 16 80

Packed, one in box

## GLOVE DRESSING

**DOLCE** — Doz.

**No. SR34**—In tube; made expressly for softening and preserving leather; will not rot the leather; makes pocket of glove soft and pliable and enables player to secure grip on the ball with one hand; weight per dozen 1¾ lbs.; retail price 10 cents each ..... $ 1 60

Packed, one tube in pasteboard box.

## UMPIRE INDICATORS

Intended for use of base-ball umpires and scorers to keep track of the number of balls and strikes that may be called; highly recommended by all umpires.

Doz.

**No. S624**—Celluloid, weight per dozen ¾ lb.; retail price 50 cents each $ 8 00

Packed, one in box.

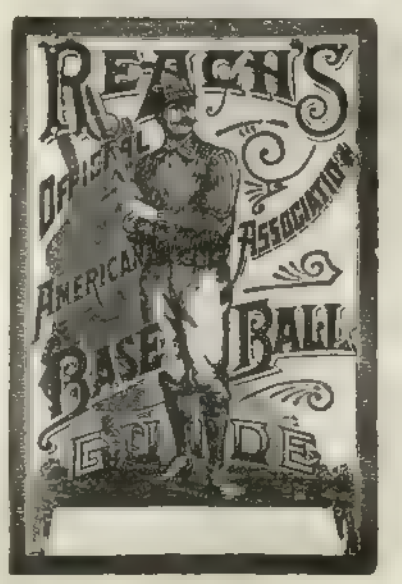
## CATCHERS' MASKS

### REACH

Doz

**No. SR20S** Best quality, gun metal, non reflecting wire sunshade; full length side pads nicely padded; no wire to obstruct view; clear vision in all directions; weight 2¼ lbs.; retail price $3.00 each..... $50 40

Packed, one in box.




## REACH PUBLICATIONS

### BASE-BALL GUIDES

Contains a complete record of the American and National League; also of minor leagues; everything of interest that happened on the ball field during the past season will be found in this book. If you want to keep posted on base-ball "Dope" read the Reach Guide

Doz

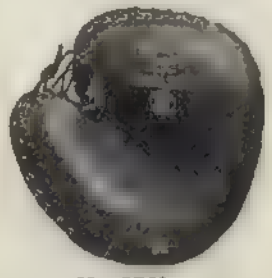
**No. SR31G** Official; weight per dozen 3¾ lbs.; retail price 10 cents each..$ 1.68

## CATCHERS' MITTS

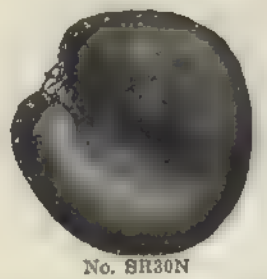
### REACH

No. SR6A

No. SR9A



No. SR32



No. SR30N

Doz

**No. SR6A** Reach Professional made of the very finest brown Reaco calfskin; one-piece moulded face and strip, special hand sewed and hand formed pad of best asbestos felt; all parts double stitched, stiffening on edge and back to protect fingers; thoroughly broken in; buckled back. Reach patent lacing, patent laced thumb and deep pocket; weight per dozen 26 lbs.; retail price $8.00 each ..... $132 00

**No. SR9A** Perforated pocket which allows a much deeper pocket to be formed and eliminates the air pressure otherwise same as No. SR6A; retail price $8.00 ..... 132 00

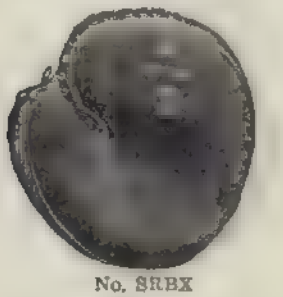
**No. SR32**—Olive Reaco calfskin, moulded model, patent lacing device; laced thumb, deep pocket; strap and buckle at wrist, padded with best asbestos felt, hand formed and hand sewed pad, all parts double stitched, double stiffening on edge and back to protect fingers, specially reinforced back and hand protector; weight per dozen 35 lbs.; retail price $6.00 each ..... 84 00

**No. SR32-R**—Same as above except for right hand ..... 84 00

**No. SR30N**—Finest black Reaco leather, moulded model, patent lacing device, leather laced thumb, inside hump, deep pocket, strap and buckle at wrist, padded with best asbestos felt, hand sewed and hand formed pad, all parts strongly stitched, stiffening on edge and back to protect fingers; weight per dozen 24 lbs.; retail price $4.00 each ..... 66.00

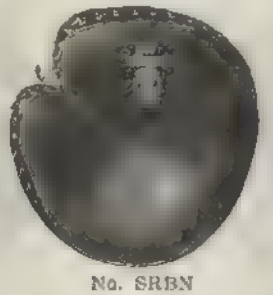
**No. SR30N-R**—Same as above except for right hand ..... 66.00

Packed, one in box

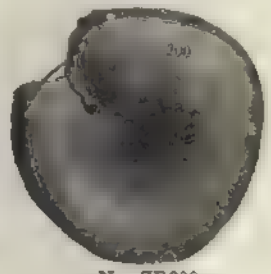


No. SRBX

No. SR31



No. SRBN



No. SR200

No. SR150

Doz.

**No. SRBX** Brown calfskin with black calfskin strip, leather laced, patent welted sole leather finger protector, new thin model which has the appearance and effect of a moulded mitt, laced thumb, patent deep pocket, weight per dozen 26 lbs.; retail price $3.50 each ..... $57 60

**No. SRBX-R**—Same as above except for right hand ..... 57.60

**No. SR31** Brown tan leather, ox blood binding, stuffed pad, leather laced, inside hump, deep pocket, strap and buckle at wrist, all parts strongly stitched, stiffening on edge and back to protect fingers; weight per dozen 24 lbs.; retail price $3.00 each ..... 54 00

**No. SR31-R**—Same as above except for right hand ..... 54 00

**No. SRBN** Black calfskin, brown strip, welt and binding, laced edge and thumb, deep pocket, inside hump; weight per dozen 24 lbs.; retail price $3.00 each ..... 48.00

**No. SR200** Finest mouse colored calfskin face and fingers; buckskin finish; craven tan leather back and strip, leather laced edge and thumb, buckled back, patent deep pocket; inside hump, new model; weight per dozen 2 lbs.; retail price $2.00 each ..... 33 00

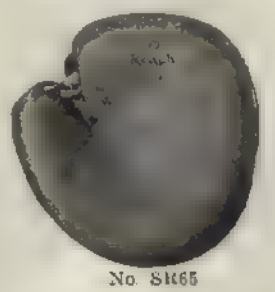
**No. SR150** Pearl colored calfskin face, fingers and strip; craven tan leather back, red binding; leather laced edge and thumb, buckled back, patent deep pocket; new thin model; weight per dozen 21 lbs.; retail price $1.50 each ..... 24 00

**No. SR150-R**—Same as above except for right hand ..... 24.00

Packed, one in box

No. SR125

No. SRFP



No. SR65

No. SRM

Doz.

**No. SR125** Fine brown tan leather front and strip; drab finish calfskin back, extra double face of brown tan leather, red binding; leather laced edge and thumb, extra deep pocket, strap and buckle at wrist, new model, weight per dozen 22 lbs.; retail price $1.25 each ..... $20 00

**No. SRFP**—Fine drab finish calfskin face, back and fingers, olive tan leather strip, laced edge and thumb; patent deep pocket; buckled back; new model; weight per dozen 22 lbs.; retail price $1.00 each ..... 16.00

**No. SRFP-R**—Same as above except for right hand ..... 16.00

**No. SR65** Fine dressed drab calfskin face, fingers and back, ox blood strip, laced thumb; patent deep pocket, new model, weight per dozen 14½ lbs.; retail price 50 cents each ..... 8.00

**No. SR65-R**—Same as above except for right hand ..... 8.00

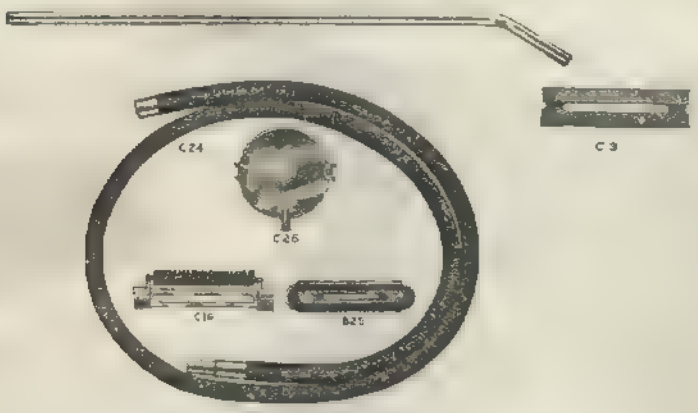
**No. SRM** Youths' professional, drab finish calfskin face and fingers, perspiration proof back, ox blood strip, inside hump; laced thumb connection; patent deep pocket; weight per dozen 13 lbs.; retail price 25 cents each ..... 4.00

Packed, Nos. SR125 to SRFP-R, one in box; Nos. SR65 and SR65-R, three in box; No. SRM, six in box

# PNEUMATIC CLEANERS

## REGINA ELECTRIC

In ordering be sure to specify kind of current and voltage.



### MODEL C

Contains two separate diaphragms or pumps, each working alternately and pumping air on the upward stroke, resulting in a continuous suction; incased dust receptacle placed between the intake and the motor; intake is large to admit of scraps of paper and burnt matches; dust receptacle easily removed and replaced; cleans a strip seven inches wide at each stroke and cleans directly up to base boards; mounted on rubber tired wheels and may be rolled over the floor like a carpet sweeper or used in connection with hose and special cleaning tools when desired; one-piece nickel plated tubing handle which can be used at any angle; complete with electric cable and connections.

Each

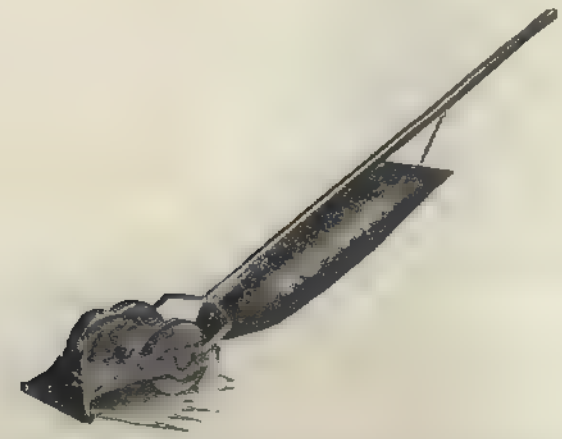
No. C—Enameled body 22 inches long, 7 inches wide, 7½ inches high; complete with combination cover and carpet nozzle; operated by direct or alternating current; weight 14 lbs. ..... $56.00

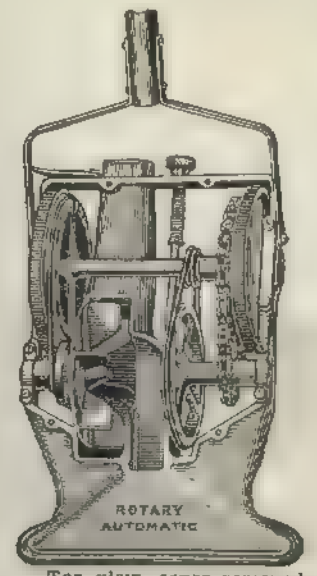
Packed, one in box

### ATTACHMENTS FOR MODEL C

| | Each |
|---|---|
| No. C 3—Hardwood floor tool, felt covered, weight ¾ lb. | $ 1.60 |
| No. C16—Revolving brush, to pick up threads, lint, etc.; weight ⅝ lb. | 1.60 |
| No. C19—Detachable handle; weight 2½ lbs. | 2 40 |
| No. C24—9-foot section of 1-inch hose, weight 3⅝ lbs | $ 7.80 |
| No. B25—Wall brush; weight ⅝ lb. | 4.00 |
| No. C26—Cover for use with hose; weight 1¼ lbs. | 1.60 |

## ROTARY AUTOMATIC






Top view, cover removed

Traction machine generating its own power by means of a noiseless and frictionless transmission, whereby propel large suction fan at a speed of from 5440 to 6,800 revolutions per minute; one-piece fan made of sheet steel, balanced on ball bearings, revolves at highest speed without vibration; fan continues to revolve at high speed for some little time after machine has been brought to a standstill, during which time it can be used for cleaning under furniture against walls and in corners, frame, nozzle and exhaust pipe made of one piece of aluminum, thumb screw at back of machine raises and lowers nozzle to clean any kind of floor or floor covering, rubber bumper prevents marring, heavy, brown cloth bag which thoroughly filters the air and retains all of the dust, can be washed without injury, 3¾-foot stained wood handle.

Each

No. RA Aluminum body 15 inches long, 9¾ inches wide and 6 inches high, complete with brush to be attached to nozzle for picking up lint and threads, easily detached; weight 14¼ lbs. ..... $32 00

Packed, one in box, handle separate

# CARPET SWEEPERS

IN ASSORTMENTS

## BISSELL SPECIAL HALF-DOZEN OFFER

### PARLOR QUEEN

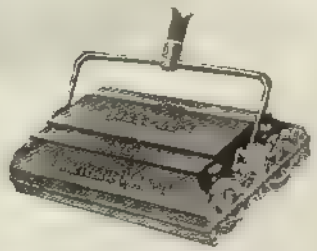
Imported rosewood, beautifully figured, highest quality piano polish; nickeled bail, bail support, end plates and pressure bar plates of original and highly artistic design.

### CYCO BEARINGS

Bearings require no oiling and insure a positive rotation of the brush; dust-proof axle tubes prevent ravelings from winding around the axle rods, as well as dust from escaping through the ends of case; anti-raveler prevents all dirt, hair or threads from getting into holes in ends of brush and thus destroying its free action; best quality hog bristle brush, roll finished in black enamel; heavy brush pulleys; heavy tin dust pans; heavy iron bail; fine quality woven braid furniture protector; malleable iron handle fastener; rubber tired wheels; 46-inch varnished handle.

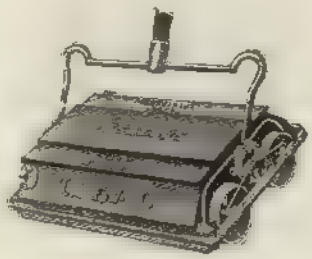
### ELITE

Hungarian ash, mahoganized curly birch, Brazilian rosewood and seal brown curly maple; oval case; nickel bail and end plates specially designed to harmonize with case.



### AMERICAN QUEEN

Mahogany veneer, beautifully mottled; highest hand polished piano finish; full nickel trimmed.



### IDEAL

Bird's eye maple, curly birch and California laurel wood, in natural and mahogany finishes; full nickel trimmed.

### GRAND RAPIDS

Birch rosewood, mahogany and oak; fine piano finish; japanned and nickeled trimmings.

Asst.

Half-Dozen -Consists of one-half dozen assortment Bissell's carpet sweepers (as illustrated and listed below); complete with display easel for three sweepers; weight per assortment 60 lbs. ..... $28 16

Packed, one assortment in box

### CONTENTS OF ASSORTMENT

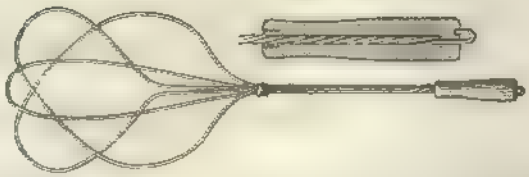
| | Dozen | Each |
|---|---|---|
| 1/12 dozen Parlor Queen | $64.00 | $ 5.33 |
| 1/12 dozen Elite | 62.00 | 5.17 |
| 1/12 dozen American Queen | 58.00 | 4 83 |
| 1/12 dozen Ideal | 54.00 | 4.50 |
| 1/12 dozen Nickel trimmed Grand Rapids | 52.00 | 4.33 |
| 1/12 dozen Japan trimmed Grand Rapids | 48 00 | 4 00 |
| | $28.16 | |

### ADVERTISING MATTER

Included free of charge with Half-Dozen Offer.

100 Bookmarks; size 2x6 inches; beautifully lithographed in colors; assorted pictures.
1 Hanger; elegantly lithographed.
5 Price Cards; to place on handles of sweepers in making display; prove a valuable selling force.
1 Poster; sanitary; size 22x28 inches, printed on finest grade coated paper beautifully illustrated with halftones.
1 Counter Card; size 8½x14 inches, printed in colors.

# CARPET BEATERS



Tinned spring wire, six at head, four in shank; wire goes through handle and is fastened so as to prevent handle from coming off; plain wood handle.

| Nos. | 10 | 11 | 12 |
|---|---|---|---|
| Wire, gauge Nos. | 10 | 11 | 12 |
| Head, inches | 10x18 | 9½x16½ | 9½x10 |
| Entire length, inches | 36 | 32 | 28 |
| Weight per dozen, lbs. | 12 | 8¼ | 5½ |
| Dozen | $3.50 | 2.50 | 1.90 |

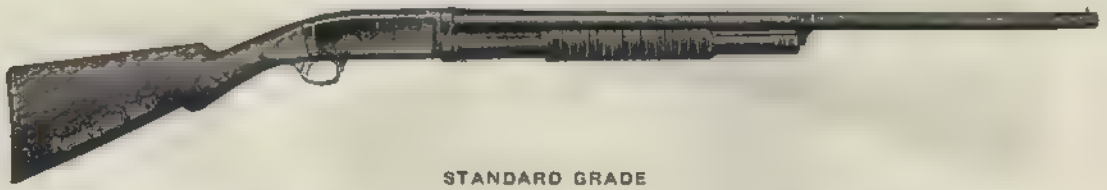
Made of three strands No. 12 galvanized, spring steel wire, braided; tempered steel handle, black japanned.

Doz.

No. 4—Entire length 30 inches; weight per dozen 8 lbs. ..... $ 1.90

# REPEATING SHOT GUNS

**REMINGTON**

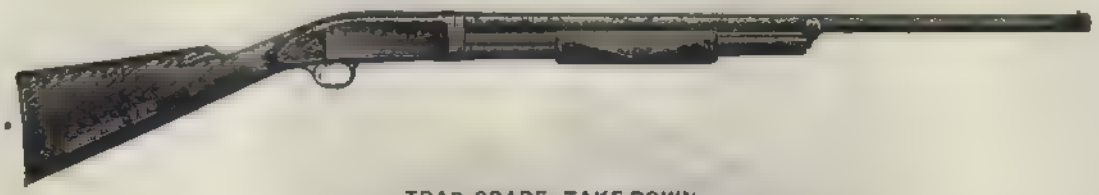


**STANDARD GRADE**

**Hammerless, Solid Breech**

| | | Each |
|---|---|---|
| No. SR | 12 gauge, 28, 30 or 32 inch Remington blued steel barrel, full choke; blued frame and trimmings; walnut stock and fore-arm; pistol grip, matted receiver, rubber butt plate, length of stock 14⅛ inches, drop 2⅜ inches, six shots, weight 7½ lbs | $27.00 $39 50 |
| No. SRM | 12-gauge; 28 or 30-inch barrel; modified choke; otherwise same as No. SR | 27.00 39 50 |
| No. SRC | 12 gauge; 26 inch barrel; cylinder bore; otherwise same as No. SR | 27.00 39 50 |
| No. SREB | 12 gauge, 30 inch Remington blued steel barrel, full choke; with an additional 12 gauge, 26-inch cylinder bored, interchangeable barrel, blued frame and trimmings, walnut stock and fore-arm; pistol grip, matted receiver, rubber butt plate, length of stock 13⅜ inches; drop 2⅜ inches; six shots, weight complete 9 lbs | 42.00 59.76 |
| No. SRMR | 12 gauge, 30-inch Remington blued steel barrel with matted extension rib, full choke, blued frame and trimmings, walnut stock and fore arm, pistol grip, matted receiver; rubber butt plate, length of stock 13¾ inches, drop 2⅜ inches; six shots, weight 7½ lbs. | 33.75 47.50 |

*EXTRA for special drop or length of stock, $10.00



**TRAP GRADE, TAKE-DOWN**

**Hammerless, Solid Breech**

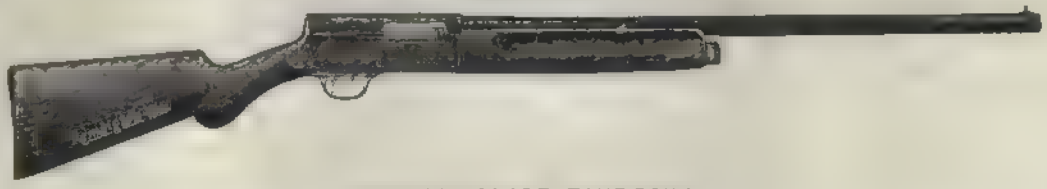
Bored to shoot smokeless powder and to target 300 pellets or over of No. 7½ chilled shot, inside a 30-inch circle at 40 yards with a load of 3¼ drams of smokeless powder and 1¼ ounces of shot; which is practically 75 per cent of the charge.

| | | Each |
|---|---|---|
| No. SRT | 12-gauge; 30-inch Remington blued steel barrel, full choke; blued frame and trimmings, selected English walnut stock and fore-arm, finely checked, straight grip matted receiver; rubber butt plate; length of stock 14¼ inches, drop 2 inches; chambered for 2¾-inch shells; six shots; weight 7¾ lbs | $47.00 $66.00 |
| No. SRTMR | —12-gauge; with matted extension rib; otherwise same as No. SRT | 53.75 74.00 |
| No. SRTS | —Same as No. SRT except with American walnut stock and matted barrel | 45 00 57 25 |

*STOCKS for Trap Grade, Take-down guns from 13½ to 15 inches long with drop from 2 to 3¼ inches made to order and furnished without extra charge; stocks of any other dimensions than specified, $10.00

# AUTO LOADING SHOT GUNS

**REMINGTON**



**STANDARD GRADE, TAKE-DOWN**

A hammerless autoloading ejector, single trigger repeater, with greatly reduced recoil. After a shot has been fired, the recoil opens the breech, ejects the empty shells, inserts a shell, cocks the hammer and closes and locks the breech, and leaves the arm ready to be fired again by pressing the trigger. The trigger must be released and pulled each time the gun is fired. In consequence of the recoil being utilized to operate the mechanism, the recoil is largely absorbed and the shooter is spared the discomfort that otherwise results from the "kick" also the reduced recoil does not throw the shooter out of position, consequently he can fire the next shot with rapidity and accuracy. This gun is in effect a single trigger five barrel gun with but one barrel to aim, carry and clean. The single barrel is also of recognized advantage, it facilitates taking quick aim; the expansion of metal is equal and it always shoots straight.

| | | Each |
|---|---|---|
| No. SRA | 12 gauge, 28 inch Remington blued steel barrel, full choke, blued frame and trimmings, walnut stock and fore-arm, pistol grip; matted receiver, rubber butt plate; length of stock 14⅜ inches, drop 2½ inches, five shots, weight 7¾ lbs | $40 00 $50 00 |
| No. SRAM | —12-gauge; 28-inch barrel; modified choke; otherwise same as No. SRA | 40.00 50 00 |
| No. SRAC | —12-gauge; 26-inch barrel; cylinder bore; otherwise same as No. SRA | 40.00 50 00 |
| No. SRAEB | 12 gauge 28-inch Remington, blued steel barrel; full choke with an additional 26 inch cylinder bored interchangeable barrel blued frame and trimmings walnut stock and fore-arm, pistol grip, matted receiver, rubber butt plate length of stock 14⅜ inches; drop 2½ inches; five shots; weight complete 9½ lbs | 56.00 70.40 |
| No. SRAMR | 12 gauge, 28-inch Remington blued steel barrel full choke, matted extension rib, blued frame and trimmings; walnut stock and fore-arm pistol grip matted receiver, rubber butt plate; length of stock 14⅜ inches, drop 2½ inches, five shots, weight 7¾ lbs. | 46.75 58 00 |
| No. SRAMRM | 12 gauge, 28-inch barrel modified choke otherwise same as No. SRAMR | 46 75 58 00 |

*EXTRA for special drop or length of stock, $10.00.

**TRAP GRADE, TAKE-DOWN**

| | | Each |
|---|---|---|
| No. SRATMR | 12 gauge, 28 inch Remington blued steel barrel full choke blued frame and trimmings; selected English walnut stock and fore-arm, the best straight grip matted extension rib rubber butt plate; length of stock 14¼ inches, drop 2⅛ inches at heel, 1½ inches at comb; five shots; weight 7¾ lbs. | $56.75 $71.74 |

*EXTRA for special drop or length of stock, $10.00.

Packed, all above, one in cardboard box.

NOTE—Goods marked thus (*) are for factory shipment only

## SINGLE BARREL SHOT GUNS

### WINCHESTER

The construction of the Winchester Single Shot 20 Gauge Shot Gun is the same as that of the Winchester Single Shot Rifle having the Sharp's breech bolt and lever, pushing movement of lever automatically withdraws the firing pin and draws down the bolt leaving the breech clear, the closing movement of the lever brings up the breech bolt and locks it in place but leaves the hammer in a locked position at half cock. To fire the gun, the hammer must be brought to full cock by hand. When open, the barrel can be examined or cleaned from the breech

No. S1920—Solid frame; 20-gauge; 26-inch, full choke, nickel steel barrel; straight grip stock and fore-arm of plain walnut, not checked; rubber butt plate; weight 5½ lbs. ..... $16.00 $21 60

No. S1920T—Take-down; 20-gauge; 26-inch, full choke, nickel steel barrel, straight grip stock and fore-arm of plain walnut, not checked; rubber butt plate; very simple take-down device, only necessary to push forward the take-down lock, drop the lever and give the barrel a quarter turn; weight 5¾ lbs. ..... $21.00 28.36

### ELGIN

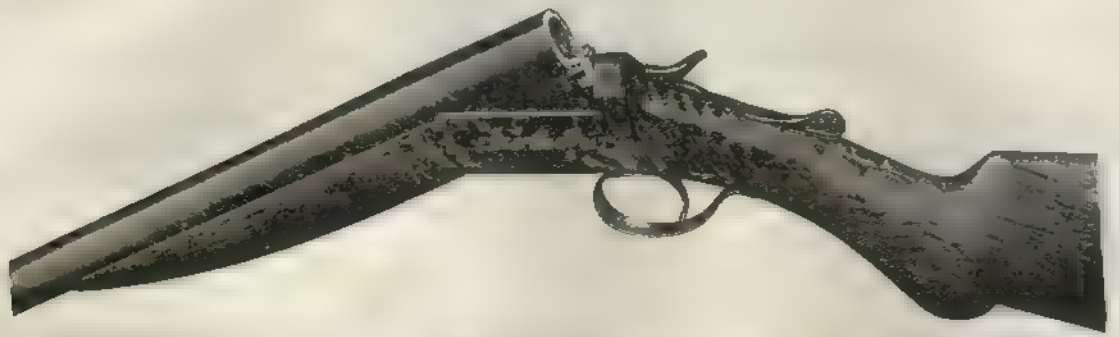
PLAIN EXTRACTOR

**This gun is made especially for us and is guaranteed in every respect; case hardened, fine quality, steel frame; case hardened joints, fore-arm made of selected walnut squared up to give a good grip to the hand selected walnut stock carefully seasoned; furnished with thick rubber butt plate; barrel best American steel; choke bored; action top snap; locks automatically when gun is closed; one of the best single barrel guns on the market.**

Each

No. S10012—12-gauge; 30-inch blued steel barrel; walnut stock, case hardened frame, metal joint, detachable fore-arm; weight 6¾ lbs . . $ 7.00

### ELECTRIC CITY



This single barrel shot gun under our Electric City brand, is an exceptional gun value The barrel is hollow tapered instead of straight giving symmetrical lines and proper balance. The breech is solid, and weight of metal is heaviest at the breech where the greatest breaking strain comes Careful inspection insures perfect fitting stock The arm is finely finished throughout and is far ahead of the majority of cheap guns

Each

No. S10212—12-gauge; 30-inch electro steel barrel, drop forged and case hardened frame, varnished walnut stock with pistol grip weight 6½ lbs. ..... $ 5.70

No. S10216—16-gauge; 30-inch barrel; weight 6½ lbs.; otherwise same as No. S10212 ..... 5 70

No. S10220—20-gauge, 26-inch barrel; weight 6½ lbs.; otherwise same as No. S10212 ..... 5 70

No. S103E12—12-gauge; 30-inch barrel, with automatic ejector weight 6½ lbs. otherwise same as No S10212 ..... 6.20

No. S103E16—16-gauge, 30-inch barrel weight 6½ lbs otherwise same as No S103E12 ..... 6 20

No. S103E20—20-gauge; 26-inch barrel; weight 6½ lbs.; otherwise same as No. S103E12 ..... 6 20

**Packed, all above, one in cardboard box**

## DERRINGER PISTOLS

REMINGTON DOUBLE SHOT

To operate throw lever down and forward. This allows tipping up of the barrel for loading, hammer works automatically, alternately firing the upper and lower barrel; shoots .41 short rim fire; rubber stock.

| | | Each |
|---|---|---|
| No. S300 | 3-inch barrel; blued finish; extreme length 5 inches; weight 11 oz | $10 00 |

## TARGET PISTOLS

### STEVENS

TIP UP MODEL

22-caliber; half octagon barrel; blued finish; walnut stock; nickeled frame; chambered for .22-short cartridges.

| | | Each |
|---|---|---|
| No. S41 | 3½-inch barrel; extreme length 6¼ inches; open sights; weight 7 oz. ..... $3.00 | $ 4.00 |

DIAMOND MODEL

22-caliber; half octagon barrel; blued finish; walnut stock; nickeled frame; chambered for .22-long rifle cartridges.

| | | Each |
|---|---|---|
| No. S143 | 6-inch barrel; with globe front and peep sights; extreme length 9 inches; weight 8¾ oz. ..... $5.00 | $ 6.50 |
| No. S243 | With open sights; otherwise same as No. S143 ..... $5.00 | 6 50 |
| No. S443 | 10-inch barrel, with globe front and peep sights, extreme length 9 inches; weight 11 oz. ..... $7.50 | 8.50 |
| No. S543 | With open sights; otherwise same as No. S443 ..... $7 50 | 8.50 |

OFF-HAND TARGET MODEL

22-caliber; round; with octagon breech barrel; blued finish; walnut stock; nickeled frame; chambered for .22-long rifle cartridge.

| | | Each |
|---|---|---|
| No. S635 | 6-inch barrel; bead front and sporting rear sights; extreme length 9¾ inches; weight 22 oz. ... $7.50 | $10 12 |
| No. S835 | 8-inch barrel; bead front and sporting rear sights; extreme length 11½ inches; weight 24 oz. ..... $8.50 | $11.50 |

### HOPKINS & ALLEN

TARGET MODEL

.22 caliber; round; with square breech barrel; walnut target grip; blued trigger guard; chambered for .22-long rifle cartridge.

| | | Each |
|---|---|---|
| No. S935 | 10-inch barrel; nickeled finish; open target sights. | $14 50 |
| No. S936 | 10-inch barrel; blued finish; otherwise same as No. S935 ..... | 14 50 |

Packed, all above, one in box

## TACK HAMMERS

Doz

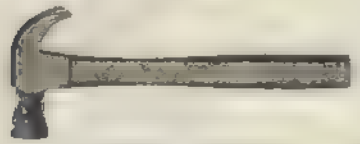
No. 5—All iron, coppered; length 6¾ inches; weight per dozen 3½ lbs....$ 0.70

Packed, two dozen in box.

Doz

No. 25—Full polished; hardwood handle; brass ferrule; with claw in end of handle; length 11¼ inches; weight per dozen 3¼ lbs.....$ 1.00

Packed, one dozen in box.



LADIES' FAVORITE Doz

No. 0250—Polished; cast iron; 11-inch natural color hickory handle; weight per dozen 4½ lbs.....$ 1.20

No 250—Nickel plated; cast iron; 11-inch natural color hickory handle; weight per dozen 4½ lbs..... 1.50

Packed, one dozen in box.

Doz

No. 2—Polished; head of magnet steel; with claw in end of handle; brass ferrule; 11½-inch hickory handle; weight per dozen 4¼ lbs.....$ 1.60

Packed, one dozen in box.

Doz

No. 4—Malleable iron; hardened face, claw in end of handle; 11-inch handle inlaid with black walnut; weight per dozen 5½ lbs.....$ 3 50

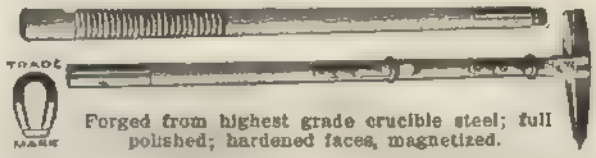
Packed, one dozen in box

Doz.

No. 200—Savage magnetic; polished steel head with claw forming permanent horseshoe shaped magnet; 11¼-inch select hickory handle; weight per dozen 6 lbs.....$ 4.00

Packed, one-half dozen in box.

## BILL POSTERS' HAMMERS




Forged from highest grade crucible steel; full polished; hardened faces, magnetized.

Doz.

No. 502—Hammer complete; 5-ounce head; 36-inch handle in two 18-inch sections; complete with spring attachments for holding card; weight per dozen 13½ lbs.....$24.00

Packed, one-sixth dozen in box.

### MAGNETIC HAMMER HEADS
Without Handle

Doz.

No. 505—Weight 5 ounces; 4x⅛ inch; weight per dozen 3¾ lbs.....$10.80

No. 508—Weight 8 ounces; 4⅛x⅝ inch; weight per dozen 6 lbs..... 24.60

Packed, one-half dozen in box.

### HAMMER HANDLES
For Bill Posters' Hammers

Selected white ash, natural finish, hand made handle. Doz

No. 36J—36-inch jointed in two 18-inch sections, without spring attachment; weight per dozen 7 lbs.....$15 00

No. 12P—12-inch plain without spring attachment; weight per dozen 1½ lbs..... 1.10

No. 18P—18-inch plain without spring attachment; weight per dozen 2½ lbs..... 5.50

No. 24P—24-inch plain without spring attachment; weight per dozen 3½ lbs..... 7.00

No. 36P—36-inch plain without spring attachment; weight per dozen 5 lbs..... 7.00

Loose.

## TACK CLAWS

Doz.

No. 1—Queen; tempered steel claw, nickel finish, iron handle; length 6 inches; weight per dozen 2 lbs....$ 0.70

Packed, one dozen in box

Doz.

No. 4—Malleable iron shank and claw; black enameled handle; nickel plated ferrule; length 6½ inches; weight per dozen 1¼ lbs.....$ 0.80

Packed, one dozen in box.

Doz

No. 5—Sterling; tempered steel claw, nickel finish, varnished imitation rosewood handle; length 6½ inches, weight per dozen 2 lbs.....$ 1.20

Packed, one dozen in box.

Doz.

No. 10—Wyeth; forged steel; ¼-inch square shank; polished cherry handle; nickel plated ferrule; length 6½ inches, weight per dozen 1½ lbs.....$ 1.50

Packed, one dozen in box

Doz.

No. 47—Cast steel; ¼-inch polished shank and claw; black enameled handle nickel plated ferrule, length 6¾ inches; weight per dozen 1½ lbs.....$ 1.60

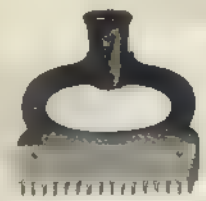
Packed, one dozen in box.

Doz.

No. 277—Drop forged from steel; polished claw, black body; length 7½ inches; weight per dozen 3 lbs....$ 2.60

Packed, one dozen in box

## CARPET STRETCHERS



No. 5

No. 10

Doz

No. 5—Malleable iron; 1-inch black enameled socket; 4-inch polished steel blade with teeth; weight per dozen 5½ lbs.....$ 1.50

No. 10—Excelsior; japanned malleable iron lever, tack hammer, ratchet and prong coppered steel wire pulls on head, secured with heavy steel screw eyes; oil finished hardwood head and arm; tempered steel wire claws; length of head 16 inches; length of arm 14½ inches; length of lever and hammer 9 inches; weight per dozen 18 lbs... 10.50

Packed, No. 5, one dozen in box; No. 10, one-twelfth dozen in box

# HAMMERS

## STRIKING OR DRILLING

Missouri pattern

Oregon pattern

Nevada pattern

Solid Cast Steel; Oil Finish; Polished Faces

### MISSOURI PATTERN, ROUND FACE

| | | | | | |
|---|---|---|---|---|---|
| Weight, lbs. | 5 | 6 | 6½ | 7 | 8 |
| Length, inches | 5½ | 5⅝ | 5⅝ | 5½ | 6¼ |
| Diameter face, inches | 1⅞ | 1⅞ | 2¼ | 2¼ | 2¼ |
| Pound | $0.14½ | .14½ | .14½ | .14½ | .14½ |

### OREGON (SHORT) PATTERN, STRAIGHT FACE

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight, lbs. | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 | 10 | 12 | 14 | 16 |
| Length, inches | 4⅛ | 4⅜ | 5 | 5 | 5⅛ | 5⅜ | 6 | 6 | 6 | 6⅝ | 6¼ | 7 | 7¼ | 7½ |
| Diameter face, inches | 1⅝ | 1⅝ | 1⅝ | 1⅞ | 1⅞ | 1⅞ | 1¾ | 2 | 2⅛ | 3¼ | 2¼ | 2⅝ | 2⅝ | 2¾ |
| Pound | $0.21 | .21 | .21 | .21 | .14½ | .14½ | .14½ | .14½ | .14½ | .14½ | .14½ | .14½ | .14½ | .14½ |

### NEVADA (LONG) PATTERN, STRAIGHT FACE

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Weight, lbs. | 3 | 3½ | 4 | 4½ | 5 | 6 | 7 | 8 | 10 | 12 |
| Length, inches | 5⅛ | 5⅛ | 6 | 6⅜ | 6⅛ | 6 | 6⅞ | 7 | 7⅝ | 8 |
| Diameter face, inches | 1½ | 1½ | 1⅛ | 1⅝ | 1⅝ | 1¾ | 1¾ | 1⅞ | 2 | 2⅛ |
| Pound | $0 21 | .21 | .21 | .21 | .14½ | .14½ | .14½ | .14½ | .14½ | .14½ |

## STONE MASONS'

Without teeth

With teeth

## SPALLING OR STONE

Single face

### STONE MASONS'

Solid cast steel; axe finish; gold bronzed body; polished face and pein.

Without Teeth

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Weight, lbs. | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6 | 7 | 8 |
| Length, inches | 6⅝ | 6⅝ | 7 | 7⅛ | 7⅞ | 8⅝ | 7⅝ | 8⅞ | 9⅜ |
| Size face, inches | 1¾x⅝ | 2x¾ | 2x¾ | 2x¾ | 2⅛x¾ | 2¼x¾ | 2¼x1 | 2⅝x1 | 3⅛x⅞ |
| Pound | $0.28 | .28 | .28 | .28 | .25½ | .25½ | .25½ | .25½ | 25 |

With Teeth

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Weight, lbs. | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6 | 7 | 8 |
| Length, inches | 6⅞ | 7 | 7⅛ | 7⅜ | 8⅛ | 8⅜ | 7⅞ | 9⅛ | 9⅝ |
| Size face, inches | 1¾x⅝ | 2x¾ | 2x¾ | 2x¾ | 2x¾ | 2x¾ | 2¼x¾ | 2¼x1 | 2⅝x⅞ |
| Pound | $0 30 | .30 | .30 | .30 | 28 | 28 | .28 | .28 | .28 |

### SPALLING OR STONE

Solid cast steel, oil finish; polished face and pein; oval eye.

| | | | | | |
|---|---|---|---|---|---|
| Weight, lbs. | 5 | 5½ | 6 | 7 | 8 |
| Length, inches | 8 | 8¼ | 8½ | 8⅞ | 9⅜ |
| Size face, inches | 2x1⅜ | 2x1⅜ | 2x1 | 2⅜x1 | 2½x1 |
| Pound | $0 21 | 21 | .21 | 21 | 21 |

## BLACKSMITHS' HAND

### SINGLE FACE; CROSS PEIN

Solid crucible steel; oil finish; hardened and polished face; oval eye.

| | | | | | | |
|---|---|---|---|---|---|---|
| Weight, lbs. | 2 | 2½ | 3 | 3½ | 4 | 5 |
| Length, inches | 4⅝ | 5⅛ | 5⅛ | 5⅜ | 6 | 5⅜ |
| Diameter face inches | 1⅝ | 1⅞ | 1⅝ | 1⅝ | 1⅝ | 2⅛ |
| Pound | $0.25½ | .25½ | .21 | .21 | .21 | .21 |

## MACADAMIZING

Solid steel; oil finish; round eye.

| | |
|---|---|
| Weights assorted, lbs. | 1¼ to 2 |
| Diameter, inches | 2⅝ to 3¼ |
| Pound | $0.44 |

# Wm. A. Rogers "1881" Brand of Medium Priced Silver Plated Flatware

## 1881 STAMPED ROGERS A1

**Made only in A1 extra plate quality. Heavily plated on 18% nickel silver base. PRICES PER DOZEN**

### BRIARCLIFFE
French Gray

**Tea Spoons**

| No. | Doz. |
|---|---|
| 13391 | $ 3.95 |

**Dessert Spoons**

| | |
|---|---|
| 13392 | $ 7.10 |

**Table Spoons**

| | |
|---|---|
| 13393 | $ 7.85 |

**Medium Forks**

| | |
|---|---|
| 13394 | $ 7.85 |

**Dessert Forks**

| | |
|---|---|
| 13395 | $ 7.10 |

**Butter Knives**

| | |
|---|---|
| 13396 | $ 7.85 |

**Sugar Shells**

| | |
|---|---|
| 13397 | $ 7.10 |
| 13398 Gilt | 12.10 |

WE ARE HEADQUARTERS FOR WM. A. ROGERS GOODS

SEND US YOUR ORDERS

### LEYLAND
Bright Finish

| No. | Doz. |
|---|---|
| **Tea Spoons** | |
| 13399 | $ 3.95 |
| **Dessert Spoons** | |
| 13400 | $ 7.10 |
| **Table Spoons** | |
| 13401 | $ 7.85 |
| **Soup Spoons** | |
| 13402 | $11.10 |
| **Bouillon Spoons** | |
| 13403 | $ 9.50 |
| **Medium Forks** | |
| 13404 | $ 7.85 |
| **Dessert Forks** | |
| 13405 | $ 7.10 |
| **Butter Knives** | |
| 13406 | $ 7.85 |
| **Sugar Shells** | |
| 13407 | $ 7.10 |
| 13408 Gilt | 12.10 |
| **Butter Spreaders** | |
| 13409 | $ 9.00 |
| **Forks** | |
| 13410 Oyster | $ 6.70 |
| 13411 Oyster Gilt | 10.35 |
| **Ladies** | |
| 13412 Cream | $14.35 |
| 13413 Cream Gilt | 21.70 |
| 13414 Gravy | 19.20 |
| 13415 Gravy Gilt | 29.20 |
| 13416 Medium | 50.85 |
| 13417 Medium Gilt | 64.20 |
| **Pickle Forks** | |
| 13418 | $14.35 |
| **Knives** | |
| 13419 Pie | $35.85 |
| 13420 Pie Gilt | 35.85 |
| **Spoons** | |
| 13421 Coffee | $ 4.35 |
| 13422 Coffee Gilt | 7.70 |
| 13423 Orange | 6.35 |
| 13424 Orange Gilt | 10.70 |
| 13425 Berry | 25.35 |
| 13426 Berry Gilt | 34.85 |

### GRAYLOCK
French Gray

**Tea Spoons**

| No. | Doz. |
|---|---|
| 13427 | $ 3.95 |

**Dessert Spoons**

| | |
|---|---|
| 13428 | $ 7.10 |

**Table Spoons**

| | |
|---|---|
| 13429 | $ 7.85 |

**Soup Spoons**

| | |
|---|---|
| 13430 | $11.10 |

**Bouillon Spoons**

| | |
|---|---|
| 13431 | $ 9.50 |

**Medium Forks**

| | |
|---|---|
| 13432 | $ 7.85 |

**Dessert Forks**

| | |
|---|---|
| 13433 | $ 7.10 |

**Butter Knives**

| | |
|---|---|
| 13434 | $ 7.85 |

**Sugar Shells**

| | |
|---|---|
| 13435 | $ 7.10 |
| 13436 Gilt | 12.10 |

**Butter Spreaders**

| | |
|---|---|
| 13437 | $ 9.00 |

**Forks**

| | |
|---|---|
| 13438 Oyster | $ 6.70 |
| 13439 Oyster Gilt | 10.35 |

**Ladies**

| | |
|---|---|
| 13440 Cream | $14.35 |
| 13441 Cream Gilt | 21.70 |
| 13442 Gravy | 19.20 |
| 13443 Gravy Gilt | 29.20 |
| 13444 Medium | 50.85 |
| 13445 Medium Gilt | 64.20 |

**Pickle Forks**

| | |
|---|---|
| 13446 | $14.35 |

**Knives**

| | |
|---|---|
| 13447 Pie | $35.85 |
| 13448 Pie Gilt | 35.85 |

**Spoons**

| | |
|---|---|
| 13449 Coffee | $ 4.35 |
| 13450 Coffee Gilt | 7.70 |
| 13451 Orange | 6.35 |
| 13452 Orange Gilt | 10.70 |
| 13453 Berry | 25.35 |
| 13454 Berry Gilt | 34.85 |

### LA VIGNE
French Gray

**Tea Spoons**

| No. | Doz. |
|---|---|
| 13455 | $ 3.95 |

**Dessert Spoons**

| | |
|---|---|
| 13456 | $ 7.10 |

**Table Spoons**

| | |
|---|---|
| 13457 | $ 7.85 |

**Soup Spoons**

| | |
|---|---|
| 13458 | $11.10 |

**Bouillon Spoons**

| | |
|---|---|
| 13459 | $ 9.50 |

**Medium Forks**

| | |
|---|---|
| 13460 | $ 7.85 |

**Dessert Forks**

| | |
|---|---|
| 13461 | $ 7.10 |

**Butter Knives**

| | |
|---|---|
| 13462 | $ 7.85 |

**Sugar Shells**

| | |
|---|---|
| 13463 | $ 7.10 |
| 13464 Gilt | 12.10 |

**Butter Spreaders**

| | |
|---|---|
| 13465 | $ 9.00 |

**Forks**

| | |
|---|---|
| 13466 Oyster | $6.70 |
| 13467 Oyster Gilt | 10.35 |

**Ladies**

| | |
|---|---|
| 13468 Cream | $14.35 |
| 13469 Cream Gilt | 21.70 |
| 13470 Gravy | 19.20 |
| 13471 Gravy Gilt | 29.20 |
| 13472 Medium | 50.85 |
| 13473 Medium Gilt | 64.20 |

**Pickle Forks**

| | |
|---|---|
| 13474 | $14.35 |

**Knives**

| | |
|---|---|
| 13475 Pie | $35.85 |
| 13476 Pie Gilt | 35.85 |

**Spoons**

| | |
|---|---|
| 13477 Coffee | $ 4.35 |
| 13478 Coffee Gilt | 7.70 |
| 13479 Orange | 6.35 |
| 13480 Orange Gilt | 10.70 |
| 13481 Berry | 25.35 |
| 13482 Berry Gilt | 34.85 |

### CARLTON

**Tea Spoons**

| No. | Doz. |
|---|---|
| 13483 | $ 3.95 |

**Dessert Spoons**

| | |
|---|---|
| 13484 | $ 7.10 |

**Table Spoons**

| | |
|---|---|
| 13485 | $ 7.85 |

**Soup Spoons**

| | |
|---|---|
| 13486 | $11.10 |

**Bouillon Spoons**

| | |
|---|---|
| 13487 | $ 9.50 |

**Medium Forks**

| | |
|---|---|
| 13488 | $ 7.85 |

**Dessert Forks**

| | |
|---|---|
| 13489 | $ 7.10 |

**Butter Knives**

| | |
|---|---|
| 13490 | $ 7.85 |

**Sugar Shells**

| | |
|---|---|
| 13491 | $ 7.10 |
| 13492 Gilt | 12.10 |

**Butter Spreaders**

| | |
|---|---|
| 13493 | $ 9.00 |

**Forks**

| | |
|---|---|
| 13494 Oyster | $ 6.70 |
| 13495 Oyster Gilt | 10.35 |

**Ladies**

| | |
|---|---|
| 13496 Cream | $14.35 |
| 13497 Cream Gilt | 21.70 |
| 13498 Gravy | 19.20 |
| 13499 Gravy Gilt | 29.20 |
| 13500 Medium | 50.85 |
| 13501 Medium Gilt | 64.20 |

**Pickle Forks**

| | |
|---|---|
| 13502 | $14.35 |

**Knives**

| | |
|---|---|
| 13503 Pie | $35.85 |
| 13504 Pie Gilt | 35.85 |

**Spoons**

| | |
|---|---|
| 13505 Coffee | $ 4.35 |
| 13506 Coffee Gilt | 7.70 |
| 13507 Orange | 6.35 |
| 13508 Orange Gilt | 10.70 |
| 13509 Berry | 25.35 |
| 13510 Berry Gilt | 34.85 |

### TIPPED
Tea Spoons

| No. | Doz. |
|---|---|
| 13511 | $ 3.95 |

**Dessert Spoons**

| | |
|---|---|
| 13512 | $ 7.10 |

**Table Spoons**

| | |
|---|---|
| 13513 | $ 7.85 |

**Medium Forks**

| | |
|---|---|
| 13514 | $ 7.85 |

**Dessert Forks**

| | |
|---|---|
| 13515 | $ 7.10 |

**Butter Knives**

| | |
|---|---|
| 13516 | $ 7.85 |

**Sugar Shells**

| | |
|---|---|
| 13517 | $ 7.10 |
| 13518 Gilt | 12.10 |

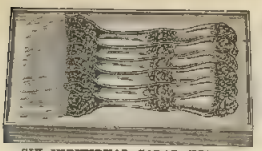
FANCY PIECES NOT MADE IN TIPPED PATTERN

WE CAN FURNISH ANY ARTICLE MADE IN THIS POPULAR BRAND

SEND US YOUR ORDERS

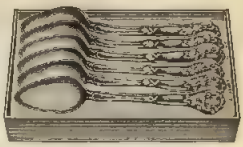
# Holmes & Edwards Superior Quality Flatware

**This brand has been on the market for over 40 years and is reliable. Plated 50% more than full standard plate on 18% nickel silver**



**SIX INDIVIDUAL SALAD FORKS**
American beauty pattern. French gray.
No. 13363 Per set ..... $5.30

**GOLD MEAT FORK**
Dolly Madison pattern. Gray finish.
No. 13364 Silver tines .....each $1.60
No. 13365 Gold tines .....each 2.30

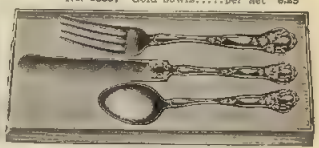


**SIX ORANGE SPOONS**
Dolly Madison pattern. French gray.
No. 13366 Silver bowls....per set $3.75
No. 13367 Gold bowls.....per set 6.25

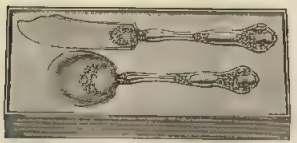
**SIX BUTTER SPREADERS**
American Beauty pattern. French gray.
No. 13368 Silver blades ....per set $5.30

**CREAM LADLE**
Dolly Madison pattern. French gray.
No. 13369 Silver bowl .....each $1.45
No. 13370 Gold bowl .....each 2.05

**GRAVY LADLE**
No. 13371 Silver bowl .....each $1.90
No. 13372 Gold bowl .....each 2.80



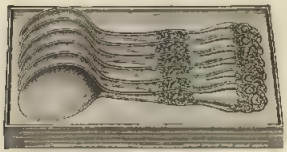
**CHILD'S SET**
Dolly Madison pattern. Gray finish.
No. 13373 Per set ..... $2.50



**BUTTER KNIFE AND SUGAR SHELL**
Dolly Madison pattern. French gray.
No. 13374 Silver blade and bowl, per set $2.35
No. 13375 Gold blade and bowl..per set 3.15

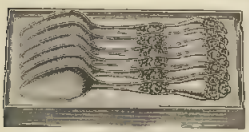
**SIX COFFEE SPOONS**
American Beauty pattern.
French gray
No. 13376 Silver bowls,per set $2.95
No. 13377 Gold bowls,per set 4.80

**CHILD'S SET**
American Beauty Rose pattern. French gray.
No. 13378 Per set ..... $2.50



**SIX SOUP SPOONS**
American Beauty pattern. French gray.
No. 13379 Silver bowls.....per set $6.55

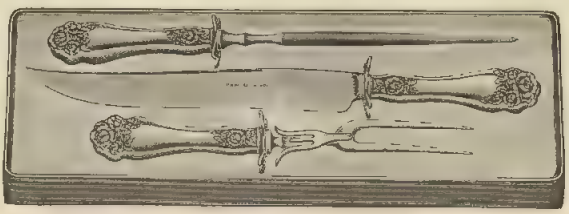
**SIX OYSTER FORKS**
American Beauty pattern.
French gray.
No. 13384 Silver tines ,per set $3.35
No 13385 Gold tines per set 5.85



**SIX ORANGE SPOONS**
American Beauty pattern. French gray.
No 13380 Silver bowls .....per set $3.75
No 13381 Gold bowls ... ..per set 6.25

**BERRY SPOON**
Dolly Madison pattern. French gray.
No. 13382 Silver bowl .....each $2.90
No. 13383 Gold bowl .....each 3.45

**CHILD'S EDUCATOR SET**
Dolly Madison pattern
Gray finish.
One short handle spoon and fork.
No. 13386 Per set...$1.60



**THREE-PIECE LARGE CARVING SET**
American Beauty pattern. Hollow handle. Steel blade. French gray.
No. 13387 Per set ..... $60.00

**SUGAR TONG**
American Beauty pattern.
French gray.
No. 13388 Each..$1.85

WM. ROGERS MFG. CO.
ANCHOR BRAND

# Fine Silver Plated Flatware
## Heavy Weight

The Wm. Rogers & Son flatware is warranted highest grade. Heavy weight. Quality and finish guaranteed. On the market for over 45 years. Unsurpassed in plate, workmanship and beauty of design. Every piece carries a guarantee of perfect satisfaction to users and will be replaced at any time WITHOUT CHARGE.

### ALHAMBRA
French Gray

| No. | Tea Spoons Doz. |
|---|---|
| 12988 | XII Sec'l ..$5.70 |
| 12989 | Triple ..... 7.80 |
| | **Dessert Spoons** |
| 12990 | XII Sec'l $10.20 |
| 12991 | Triple ..... 13.20 |
| | **Table Spoons** |
| 12992 | XII Sec'l $11.40 |
| 12993 | Triple ..... 15.60 |
| | **Dessert Forks** |
| 12994 | XII Sec'l..$10.20 |
| 12995 | Triple ..... 13.20 |
| | **Medium Forks** |
| 12996 | XII Sec'l...$11.40 |
| 12997 | Triple ..... 15.60 |
| | **Soup Spoons** |
| 12998 | XII Sec'l $11.40 |
| | **Butter Spreaders** |
| 12999 | Al plate $10.20 |
| | **Twist Butters** |
| 13000 | Al plate $12.60 |
| | **Sugar Shells** |
| 13001 | AA plate $10.80 |
| | **Ladies** |
| 13002 | Cream ....$16.20 |
| 13003 | Gravy ..... 21.60 |
| 13004 | Oyster ..... 46.80 |
| 13005 | Medium ... 57.60 |
| | **Knives** |
| 13006 | Dess't (HH)$23.33 |
| 13007 | Med. (HH) 25.00 |
| 13008 | Pie ..... 36.00 |
| | **Spoons** |
| 13009 | Coffee .. $ 5.63 |
| 13010 | Orange ..... 7.20 |
| 13011 | Berry ..... 28.80 |
| 13012 | Berry Gilt. 39.60 |

### BEAUTY
French Gray

| No. | Tea Spoons Doz. |
|---|---|
| 13013 | XII Sec'l...$5.70 |
| 13014 | Triple ..... 7.80 |
| | **Dessert Spoons** |
| 13015 | XII Sec'l $10.20 |
| 13016 | Triple ..... 13.20 |
| | **Table Spoons** |
| 13017 | XII Sec'l. $11.40 |
| 13018 | Triple ..... 15.60 |
| | **Dessert Forks** |
| 13019 | XII Sec'l...$10.20 |
| 13020 | Triple ..... 13.20 |
| | **Medium Forks** |
| 13021 | XII Sec'l $11.40 |
| 13022 | Triple ..... 15.60 |
| | **Soup Spoons** |
| 13023 | XII Sec'l $11.40 |
| | **Butter Spreaders** |
| 13024 | Al plate $10.20 |
| | **Twist Butters** |
| 13025 | Al plate $12.60 |
| | **Sugar Shells** |
| 13026 | Al plate $10.80 |
| | **Ladies** |
| 13027 | Cream ....$16.20 |
| 13028 | Gravy ..... 21.60 |
| 13029 | Oyster ..... 46.80 |
| 13030 | Medium ....57.60 |
| | **Knives** |
| 13031 | Dess't (HH)$23.33 |
| 13032 | Med. (HH) 25.00 |
| 13033 | Pie ..... 36.00 |
| | **Spoons** |
| 13034 | Coffee .. $ 5.63 |
| 13035 | Orange ..... 7.20 |
| 13036 | Berry ..... 28.80 |
| 13037 | Berry Gilt. 39.60 |

### KENSINGTON
French Gray

| No. | Tea Spoons Doz. |
|---|---|
| 13038 | XII Sec'l ...$5.70 |
| 13039 | Triple ..... 7.80 |
| | **Dessert Spoons** |
| 13040 | XII Sec'l $10.20 |
| 13041 | Triple ..... 13.20 |
| | **Table Spoons** |
| 13042 | XII Sec'l $11.40 |
| 13043 | Triple ..... 15.60 |
| | **Dessert Forks** |
| 13044 | XII Sec'l. $10.20 |
| 13045 | Triple ..... 13.20 |
| | **Medium Forks** |
| 13046 | XII Sec'l $11.40 |
| 13047 | Triple ..... 15.60 |
| | **Soup Spoons** |
| 13048 | XII Sec'l $11.40 |
| | **Butter Spreaders** |
| 13049 | Al plate $10.20 |
| | **Twist Butters** |
| 13050 | Al plate $12.60 |
| | **Sugar Shells** |
| 13051 | Al plate ... $10.80 |
| | **Ladies** |
| 13052 | Cream ... $16.20 |
| 13053 | Gravy ..... 21.60 |
| 13054 | Oyster ..... 46.80 |
| 13055 | Medium ... 57.60 |
| | **Knives** |
| 13056 | Dess't (HH)$23.33 |
| 13057 | Med (HH) 25.00 |
| 13058 | Pie ..... 36.00 |
| | **Spoons** |
| 13059 | Coffee .. $ 5.63 |
| 13060 | Orange ..... 7.20 |
| 13061 | Berry ..... 28.80 |
| 13062 | Berry Gilt. 39.60 |

### LEXINGTON
Bright Finish

| No | Tea Spoons Doz. |
|---|---|
| 13063 | XII Sec'l. .$ 5.70 |
| 13064 | Triple ..... 7.80 |
| | **Dessert Spoons** |
| 13065 | XII Sec'l .$10.20 |
| 13066 | Triple ..... 13.20 |
| | **Table Spoons** |
| 13067 | XII Sec'l $11.40 |
| 13068 | Triple ..... 15.60 |
| | **Dessert Forks** |
| 13069 | XII Sec'l $10.20 |
| 13070 | Triple ..... 13.20 |
| | **Medium Forks** |
| 13071 | XII Sec'l..$11.40 |
| 13072 | Triple ..... 15.60 |
| | **Soup Spoons** |
| 13073 | XII Sec'l $11.40 |
| | **Butter Spreaders** |
| 13074 | Al plate $10.20 |
| | **Twist Butters** |
| 13075 | Al plate $12.60 |
| | **Sugar Shells** |
| 13076 | Al plate $10.80 |
| | **Ladies** |
| 13077 | Cream ....$16.20 |
| 13078 | Gravy ..... 21.60 |
| 13079 | Oyster ..... 46.80 |
| 13080 | Medium ... 57.60 |
| | **Knives** |
| 13081 | Dess't (HH)$23.33 |
| 13082 | Med (HH) 25.00 |
| 13083 | Pie ..... 36.00 |
| | **Spoons** |
| 13084 | Coffee .. $ 5.63 |
| 13085 | Orange ..... 7.20 |
| 13086 | Berry ..... 28.80 |
| 13087 | Berry Gilt. 39.60 |

### PURITAN
Bright Finish

| No. | Tea Spoons Doz. |
|---|---|
| 13088 | XII Sec'l..$ 5.70 |
| 13089 | Triple ..... 7.80 |
| | **Dessert Spoons** |
| 13090 | XII Sec'l $10.20 |
| 13091 | Triple ..... 13.20 |
| | **Table Spoons** |
| 13092 | XII Sec'l $11.40 |
| 13093 | Triple ..... 15.60 |
| | **Dessert Forks** |
| 13094 | XII Sec'l $10.20 |
| 13095 | Triple ..... 13.20 |
| | **Medium Forks** |
| 13096 | XII Sec'l ..$11.40 |
| 13097 | Triple ..... 15.60 |
| | **Soup Spoons** |
| 13098 | XII Sec'l $11.40 |
| | **Butter Spreaders** |
| 13099 | Al plate $10.20 |
| | **Twist Butters** |
| 13100 | Al plate ..$12.60 |
| | **Sugar Shells** |
| 13101 | Al plate ..$10.80 |
| | **Ladies** |
| 13102 | Cream ....$16.20 |
| 13103 | Gravy ..... 21.60 |
| 13104 | Oyster ..... 46.80 |
| 13105 | Medium .. 57.60 |
| | **Knives** |
| 13106 | Dess't (HH)$23.33 |
| 13107 | Med. (HH) 25.00 |
| 13108 | Pie ..... 36.00 |
| | **Spoons** |
| 13109 | Coffee .. $ 5.63 |
| 13110 | Orange ..... 7.20 |
| 13111 | Berry ..... 28.80 |
| 13112 | Berry Gilt 39.60 |

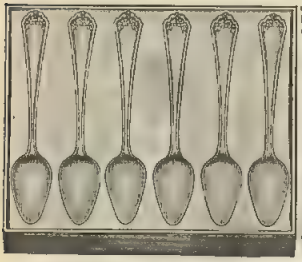
### ARGYLE
Bright Finish

| No. | Tea Spoons Doz. |
|---|---|
| 13113 | XII Sec'l..$ 5.70 |
| 13114 | Triple ..... 7.80 |
| | **Dessert Spoons** |
| 13115 | XII Sec'l $10.20 |
| 13116 | Triple ..... 13.20 |
| | **Table Spoons** |
| 13117 | XII Sec'l $11.40 |
| 13118 | Triple ..... 15.60 |
| | **Dessert Forks** |
| 13119 | XII Sec'l $10.20 |
| 13120 | Triple ..... 13.20 |
| | **Medium Forks** |
| 13121 | XII Sec'l $11.40 |
| 13122 | Triple ..... 15.60 |
| | **Soup Spoons** |
| 13123 | XII Sec'l $11.40 |
| | **Butter Spreaders** |
| 13124 | Al plate ..$10.20 |
| | **Twist Butters** |
| 13125 | Al plate ..$12.60 |
| | **Sugar Shells** |
| 13126 | Al plate. .$10.80 |
| | **Ladies** |
| 13127 | Cream ... $16.20 |
| 13128 | Gravy ..... 21.60 |
| 13129 | Oyster ..... 46.80 |
| 13130 | Medium .. 57.60 |
| | **Knives** |
| 13131 | Dess't (HH)$23.33 |
| 13132 | Med (HH) 25.00 |
| 13133 | Pie ..... 36.00 |
| | **Spoons** |
| 13134 | Coffee .. .$ 5.63 |
| 13135 | Orange .. 7.20 |
| 13136 | Berry .. 28.80 |
| 13137 | Berry Gilt 39.60 |

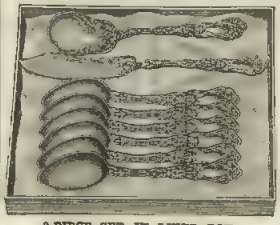
# Wm Rogers Mfg. Co. Fine Silver Plated Flatware

## ANCHOR BRAND — Put up in fancy lined glazed paper boxes

HEAVY WEIGHT—On the market for over 45 years unsurpassed in plate, workmanship and beauty of design. Every piece carries guarantee of perfect satisfaction to users and will be replaced any time WITHOUT CHARGE.



**SIX ORANGE SPOONS**
Kensington pattern, French gray
No. 13138 Silver bowls.... per set $2.60



**8-PIECE SET IN LINED BOX**
Alhambra pattern, French gray. Six teaspoons, one sugar shell one butter knife
No. 13139 Silver bowls.. . .. per set $5.40

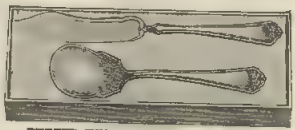
**SIX INDIVIDUAL SALAD FORKS**
Alhambra pattern French gray
No. 13140 Silver tines .. . . . Per set $5.70

**BUTTER KNIFE AND SUGAR SHELL**
Alhambra pattern, French gray.
No. 13141 Silver bowls.....per set $2.22

**BABY SET**
Kensington pattern
Gray finish
One baby spoon
one food pusher
No. 13142 Silver bowl and blade
..... per set $1.50

**COLD MEAT FORK**
Alhambra pattern, French gray
No. 13143 Silver tines... . each $1.50
No. 13144 Gold tines. each 2.08

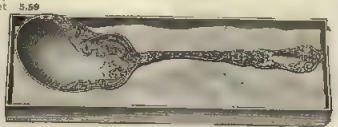
**SIX OYSTER FORKS**
Kensington pattern, French gray.
No. 13145 Silver tines.....
.....per set $3.79
No. 13146 Gold tines .....
.....per set 5.59



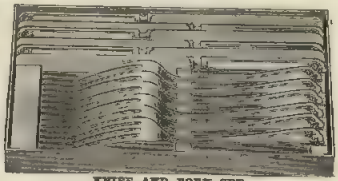
**BUTTER KNIFE AND SUGAR SHELL**
Kensington pattern, French gray.
No. 13147 Silver bowl and blade, per set $2.22

**LADLES**
Alhambra pattern, French gray.
No. 13152 Cream, Silver bowl.....each $1.25
No. 13153 Cream, gold bowl.....each 1.95
No. 13154 Gravy, silver bowl.....each 1.80
No. 13155 Gravy, gold bowl.... each 2.70
No. 13156 Medium silver bowl .. each 4.00
No. 13157 Medium gold bowl.. . each 6.00

**THREE-PIECE COMBINATION SET**
Alhambra pattern, French gray. One cream ladle one butter knife one sugar shell
No. 13158 Silver bowls
... . . . . .per set $3.83

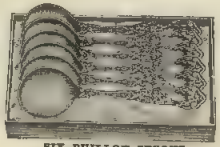


**BERRY SPOON**
Alhambra pattern, French gray.
No. 13148 Silver bowl.....each $2.40
No. 13149 Gold bowl.....each 3.20



**KNIFE AND FORK SET**
Kensington pattern, French gray Six medium solid handle knives, six medium spoon handle forks
No. 13150 Per set ..... $10.70

**KNIFE AND FORK SET**
Alhambra pattern, French gray Six medium solid handle knives, six medium solid handle forks.
No. 13159 Per set .....$10.00



**SIX BUILLON SPOONS**
Alhambra pattern,
French gray
No. 13161 Silver
bowls . per set $5.40

"Eagle Brand" W. ROGERS, ★ Wallingford, Ct. "Eagle Brand"

Fine Silver Plated Flat-ware

X12 Sectional and Triple Plated on 21 Per Cent Nickel Silver

PRICES PER DOZEN

### CARROLLTON
French Gray
Tea Spoons

| No. | Doz. |
|---|---|
| 12110 X12 Sec'l. | $8.95 |
| 12111 Triple .. | 8.10 |

Dessert Spoons

| | |
|---|---|
| 12112 X12 Sec'l.. | $10.60 |
| 12113 Triple .. | 13.70 |

Table Spoons

| | |
|---|---|
| 12114 X12 Sec'l | $11.85 |
| 12115 Triple .. | 16.20 |

Dessert Forks

| | |
|---|---|
| 12116 X12 Sec'l | $10.60 |
| 12117 Triple .. | 13.70 |

Medium Forks

| | |
|---|---|
| 12118 X12 Sec'l | $11.85 |
| 12119 Triple .. | 16.20 |

Soup Spoons

| | |
|---|---|
| 12120 X12 Sec'l | $11.85 |

Butter Spreaders

| | |
|---|---|
| 12121 X12 Sec'l | $10.60 |

Twist Butters

| | |
|---|---|
| 12122 X12 Sec'l | $13.10 |

Sugar Shells

| | |
|---|---|
| 12123 X12 Sec'l | $11.20 |

LADLES
X12 Sectional Plate

| | |
|---|---|
| 12124 Cream .. | $17.20 |
| 12125 Gravy .. | 22.40 |
| 12126 Oyster .. | 49.00 |
| 12127 Medium .. | 60.00 |
| 12128 Soup .. | 63.60 |

HOTEL
X12 Sectional Plate

| | |
|---|---|
| 12128 Med'm HH | $26.00 |
| 12130 Dess't HH | 24.30 |
| 12131 Pie .. | 37.60 |
| 12132 Cake .. | 30.00 |

SPOONS
X12 Sectional Plate

| | |
|---|---|
| 12133 Coffee .. | $ 5.85 |
| 12134 Orange .. | 7.50 |
| 12135 Berry .. | 30.00 |
| 12136 Berry Gilt | 41.20 |

### [illegible]
French Gray
Tea Spoons

| No. | Doz. |
|---|---|
| 12137 X12 Sec'l.. | $5.95 |
| 12138 Triple .... | 8.10 |

Dessert Spoons

| | |
|---|---|
| 12139 X12 Sec'l | $10.60 |
| 12140 Triple .. | 13.70 |

Table Spoons

| | |
|---|---|
| 12141 X12 Sec'l | $11.85 |
| 12142 Triple .. | 16.20 |

Dessert Forks

| | |
|---|---|
| 12143 X12 Sec'l | $10.60 |
| 12144 Triple .. | 13.70 |

Medium Forks

| | |
|---|---|
| 12145 X12 Sec'l | $11.85 |
| 12146 Triple .. | 16.20 |

Soup Spoons

| | |
|---|---|
| 12147 X12 Sec'l | $11.85 |

Butter Spreaders

| | |
|---|---|
| 12148 X12 Sec'l | $10.60 |

Twist Butters

| | |
|---|---|
| 12149 X12 plate | $13.10 |

Sugar Shells

| | |
|---|---|
| 12150 X12 Sec'l | $11.20 |

RADIUM
X12 Sectional Plate

| | |
|---|---|
| 12151 Cream .. | $17.20 |
| 12152 Gravy .. | 22.40 |
| 12153 Oyster .. | 49.00 |
| 12154 Medium .. | 60.00 |
| 12155 Soup .. | 63.60 |

KNIVES
X12 Sectional Plate

| | |
|---|---|
| 12156 Med. HH | $26.00 |
| 12157 Dess't HH | 24.30 |
| 12158 Pie .. | 37.60 |
| 12159 Cake .. | 30.00 |

SPOONS
X12 Sectional Plate

| | |
|---|---|
| 12160 Coffee .. | $ 5.85 |
| 12161 Orange .. | 7.50 |
| 12162 Berry .. | 30.00 |
| 12163 Berry Gilt | 41.20 |

### HARDWICK
French Gray
Tea Spoons

| No. | Doz. |
|---|---|
| 12164 X12 Sec'l.$ | 5.95 |
| 12165 Triple .. | 8.10 |

Dessert Spoons

| | |
|---|---|
| 12166 X12 Sec'l | $10.60 |
| 12167 Triple .. | 13.70 |

Table Spoons

| | |
|---|---|
| 12168 X12 Sec'l | $11.85 |
| 12169 Triple .. | 16.20 |

Dessert Forks

| | |
|---|---|
| 12170 X12 Sec'l | $10.60 |
| 12171 Triple .. | 13.70 |

Medium Forks

| | |
|---|---|
| 12172 X12 Sec'l | $11.85 |
| 12173 Triple .. | 16.20 |

Soup Spoons

| | |
|---|---|
| 12174 X12 Sec'l | $11.85 |

Butter Spreaders

| | |
|---|---|
| 12175 X12 Sec'l | $10.60 |

Twist Butters

| | |
|---|---|
| 12176 X12 Sec'l | $13.10 |

Sugar Shells

| | |
|---|---|
| 12177 X12 Sec'l | $11.20 |

LADLES
X12 Sectional Plate

| | |
|---|---|
| 12178 Cream .. | $17.20 |
| 12179 Gravy .. | 22.40 |
| 12180 Oyster .. | 49.00 |
| 12181 Medium .. | 60.00 |
| 12182 Soup .. | 63.60 |

X12 Sectional Plate
KNIVES

| | |
|---|---|
| 12183 Med. HH | $26.00 |
| 12184 Dess't HH | 24.30 |
| 12185 Pie .. | 37.60 |

SPOONS
X12 Sectional Plate

| | |
|---|---|
| 12186 Coffee .. | $ 5.85 |
| 12187 Orange .. | 7.50 |
| 12188 Berry .. | 30.00 |
| 12189 Berry Gilt | 41.20 |

### CHAMPLAIN
French Gray
Tea Spoons

| No. | Doz. |
|---|---|
| 12190 X12 Sec'l.$ | 5.95 |
| 12191 Triple .. | 8.10 |

Dessert Spoons

| | |
|---|---|
| 12192 X12 Sec'l | $10.60 |
| 12193 Triple .. | 13.70 |

Table Spoons

| | |
|---|---|
| 12194 X12 Sec'l | $11.85 |
| 12195 Triple .. | 16.20 |

Dessert Forks

| | |
|---|---|
| 12196 X12 Sec'l | $10.60 |
| 12197 Triple .. | 13.70 |

Medium Forks

| | |
|---|---|
| 12198 X12 Sec'l | $11.85 |
| 12199 Triple .. | 16.20 |

Soup Spoons

| | |
|---|---|
| 12200 X12 Sec'l | $11.85 |

Butter Spreaders

| | |
|---|---|
| 12201 X12 Sec'l | $10.60 |

Twist Butters

| | |
|---|---|
| 12202 X12 Sec'l | $13.10 |

Sugar Shells

| | |
|---|---|
| 12203 X12 Sec'l | $11.20 |

LADLES
X12 Sectional Plate

| | |
|---|---|
| 12204 Cream .. | $17.20 |
| 12205 Gravy .. | 22.40 |
| 12206 Oyster .. | 49.00 |
| 12207 Medium .. | 60.00 |
| 12208 Soup .. | 63.60 |

KNIVES
X12 Sectional Plate

| | |
|---|---|
| 12209 Med. HH | $26.00 |
| 12210 Dess't HH | 24.30 |
| 12211 Pie .. | 37.60 |
| 12212 Cake .. | 30.00 |

SPOONS
X12 Sectional Plate

| | |
|---|---|
| 12213 Coffee .. | $ 5.85 |
| 12214 Orange .. | 7.50 |
| 12215 Berry .. | 30.00 |
| 12216 Berry Gilt | 41.20 |

### TIPPED
Tea Spoons

| No. | Doz. |
|---|---|
| 12217 X12 Sec'l.$ | 5.30 |
| 12218 Triple .. | 7.50 |

Dessert Spoons

| | |
|---|---|
| 12219 X12 Sec'l$ | 9.35 |
| 12220 Triple .. | 12.50 |

Table Spoons

| | |
|---|---|
| 12221 X12 Sec'l | $10.60 |
| 12222 Triple .. | 15.00 |

Dessert Forks

| | |
|---|---|
| 12223 X12 Sec'l$ | 9.35 |
| 12224 Triple .. | 12.50 |

Medium Forks

| | |
|---|---|
| 12225 X12 Sec'l | $10.60 |
| 12226 Triple .. | 15.00 |

Twist Butters

| | |
|---|---|
| 12227 X12 Sec'l | $12.50 |

Sugar Shells

| | |
|---|---|
| 12228 X12 Sec'l | $10.00 |

Fancy pieces not made in Tipped pattern.

We can furnish any article made in Wm. Rogers' Eagle Brand.

Send us your orders.

### CONCORD
French Gray
Tea Spoons

| No. | Doz. |
|---|---|
| 12229 X12 Sec'l.$ | 5.95 |
| 12230 Triple .. | 8.10 |

Dessert Spoons

| | |
|---|---|
| 12231 X12 Sec'l | $10.60 |
| 12232 Triple .. | 13.70 |

Table Spoons

| | |
|---|---|
| 12233 X12 Sec'l | $11.85 |
| 12234 Triple .. | 16.20 |

Dessert Forks

| | |
|---|---|
| 12235 X12 Sec'l | $10.60 |
| 12236 Triple .. | 13.70 |

Medium Forks

| | |
|---|---|
| 12237 X12 Sec'l | $11.85 |
| 12238 Triple .. | 16.20 |

Soup Spoons

| | |
|---|---|
| 12239 X12 Sec'l | $11.85 |

Butter Spreaders

| | |
|---|---|
| 12240 X12 Sec'l | $10.60 |

Twist Butters

| | |
|---|---|
| 12241 X12 Sec'l | $13.10 |

Sugar Shells

| | |
|---|---|
| 12242 X12 Sec'l | $11.20 |

LADLES
X12 Sectional Plate

| | |
|---|---|
| 12243 Cream .. | $17.20 |
| 12244 Gravy .. | 22.40 |
| 12245 Oyster .. | 49.00 |
| 12246 Medium .. | 60.00 |
| 12247 Soup .. | 63.60 |

KNIVES
X12 Sectional Plate

| | |
|---|---|
| 12248 Med. HH | $26.00 |
| 12249 Dess't HH | 24.30 |
| 12250 Pie .. | 37.60 |

SPOONS
X12 Sectional Plate

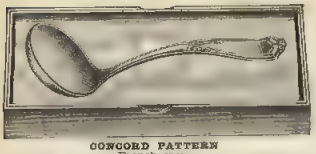
| | |
|---|---|
| 12251 Coffee .. | $ 5.85 |
| 12252 Orange .. | 7.50 |
| 12253 Berry .. | 30.00 |
| 12254 Berry Gilt | 41.20 |

Eagle 1847 W. ROGERS Brand

# Fine Silver Plated Flatware

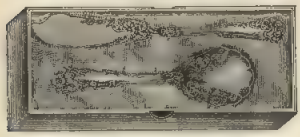
Eagle 1847 W. ROGERS Brand

**Put up in fancy lined paper boxes**



**CONCORD PATTERN**
French gray

| | | | | |
|---|---|---|---|---|
| No. 12265 | Cream Ladle. | Silver bowl | each | $1.45 |
| No. 12266 | Cream Ladle. | Gold bowl | each | 2.05 |
| No. 12267 | Gravy Ladle. | Silver bowl | each | 1.80 |
| No. 12268 | Gravy Ladle. | Gold bowl | each | 2.80 |
| No. 12269 | Oyster Ladle. | Silver bowl | each | 4.10 |
| No. 12270 | Oyster Ladle. | Gold bowl | each | 5.10 |
| No. 12271 | Medium Ladle. | Silver bowl | each | 5.00 |
| No. 12272 | Medium Ladle. | Gold bowl | each | 6.25 |

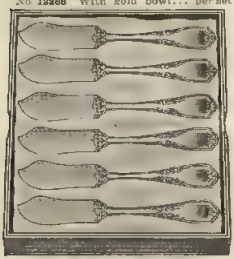


**BUTTER KNIFE AND SUGAR SHELL**
Berwick pattern. French gray.

| | | | |
|---|---|---|---|
| No. 12281 | Silver bowl | per set | $2.30 |
| No. 12282 | With gold bowl | per set | 2.70 |

**BUTTER KNIFE AND SUGAR SHELL**
Hardwick pattern. French gray.

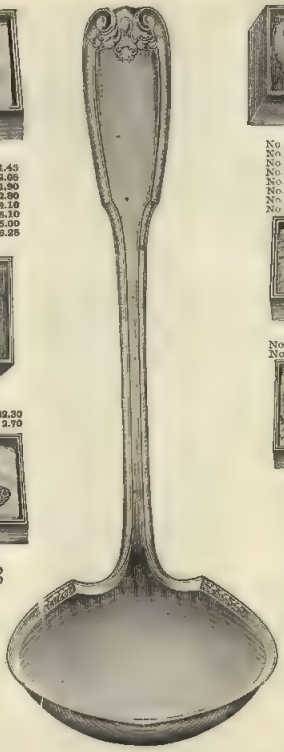
| | | | |
|---|---|---|---|
| No. 12285 | Silver bowl | per set | $2.30 |
| No. 12286 | With gold bowl | per set | 2.70 |



**SIX BUTTER SPREADERS**
Concord pattern. French gray.
No. 12291 Per set . . . . . $5.30

**SIX COFFEE SPOONS**
Garrick pattern. French gray.

| No. | | Per set |
|---|---|---|
| 12284 | Silver bowls | $3.95 |
| 12285 | Gold bowls | 4.85 |



**CHAMPLAIN PATTERN**
French gray.

**Cream Ladle**

| | | | |
|---|---|---|---|
| No. 12255 | Silver bowl | each | $1.45 |
| No. 12256 | Gold bowl | each | 2.05 |

**Gravy Ladle**

| | | | |
|---|---|---|---|
| No. 12257 | Silver bowl | each | $1.80 |
| No. 12258 | Gold bowl | each | 2.80 |

**Oyster Ladle**

| | | | |
|---|---|---|---|
| No. 12259 | Silver bowl | each | $4.10 |
| No. 12260 | Gold bowl | each | 5.10 |

**Medium Ladle**

| | | | |
|---|---|---|---|
| No. 12261 | Silver bowl | each | $5.00 |
| No. 12262 | Gold bowl | each | 6.25 |

**Soup Ladle**

| | | | |
|---|---|---|---|
| No. 12263 | Silver bowl | each | $5.30 |
| No. 12264 | Gold bowl | each | 6.90 |

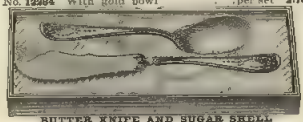
**BABY SPOON**
Berwick pattern. French gray.
No. 12296 Each . . . . . $0.80

**BERWICK PATTERN** French gray

| | | | | |
|---|---|---|---|---|
| No. 12273 | Cream Ladle. | Silver bowl | each | $1.45 |
| No. 12274 | Cream Ladle. | Gold bowl | each | 2.05 |
| No. 12275 | Gravy Ladle. | Silver bowl | each | 1.90 |
| No. 12276 | Gravy Ladle. | Gold bowl | each | 2.80 |
| No. 12277 | Oyster Ladle. | Silver bowl | each | 4.10 |
| No. 12278 | Oyster Ladle. | Gold bowl | each | 5.10 |
| No. 12279 | Medium Ladle. | Silver bowl | each | 5.00 |
| No. 12280 | Medium Ladle. | Gold bowl | each | 6.25 |

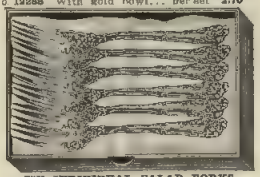
**BUTTER KNIFE AND SUGAR SHELL**
Carrollton pattern. French gray

| | | | |
|---|---|---|---|
| No. 12283 | Silver bowl | per set | $2.30 |
| No. 12284 | With gold bowl | per set | 2.70 |



**BUTTER KNIFE AND SUGAR SHELL**
Garrick pattern. French gray

| | | | |
|---|---|---|---|
| No. 12287 | Silver bowl | per set | $2.30 |
| No. 12288 | With gold bowl | per set | 2.70 |



**SIX INDIVIDUAL SALAD FORKS**
Berwick pattern. French gray.

| | | | |
|---|---|---|---|
| No. 12289 | Silver tines | per set | $5.95 |
| No. 12290 | Gold tines | per set | 8.45 |

**SIX FRUIT FORKS**
Garrick pattern. French gray.

| | | | |
|---|---|---|---|
| No. 12292 | Silver tines | per set | $3.75 |
| No. 12293 | Gold tines | per set | 5.40 |

**BABY SET**
Berwick pattern. French gray.
No. 12297 One baby spoon, one food pusher . . . per set $1.35

# WM. A. ROGERS

HORSE SHOE BRAND

## Celebrated Silver Plated Flatware

Wm. A. Rogers are one of the oldest established makers.
The quality of their product is beyond question.

PRICES PER DOZEN

**WM. A. ROGERS**

**S X R**

(Sectional Reinforced)

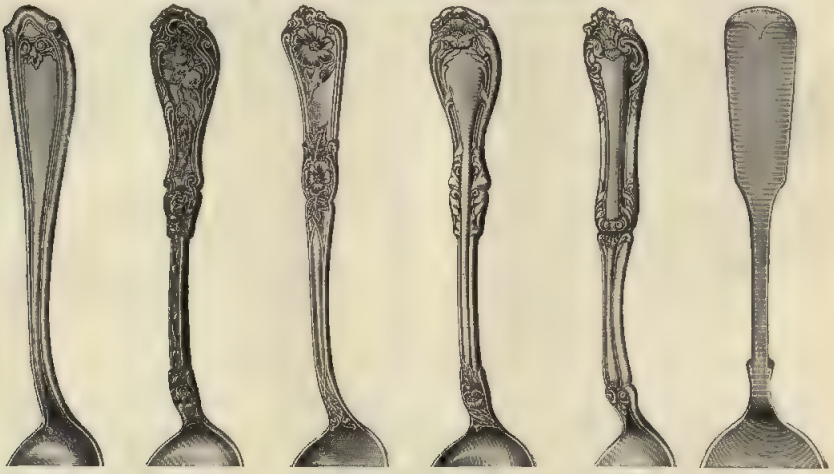
Tea Spoons bearing this mark are guaranteed to strip not less than THREE OUNCES of pure silver per gross. Parts most exposed to wear will be reinforced by our special process with full triple plate.

**WM. A. ROGERS**

**S X X X R**

(Sectional Reinforced)

Tea Spoons bearing this mark are guaranteed to be plated with FULL SIX OUNCES of pure silver per gross. Parts most exposed to wear are reinforced with an additional heavy plate by our special process, making them equal in service to quadruple plate.



### ABINGTON
French Gray
Tea Spoons

| No. | | Doz. |
|---|---|---|
| 12337 | SXR | $5.95 |
| 12338 | SXXXR | 8.10 |

Dessert Spoons

| | | |
|---|---|---|
| 12339 | SXR | $10.60 |
| 12340 | SXXXR | 13.75 |

Table Spoons

| | | |
|---|---|---|
| 12341 | SXR | $11.90 |
| 12342 | SXXXR | 16.20 |

Dessert Forks

| | | |
|---|---|---|
| 12343 | SXR | $10.60 |
| 12344 | SXXXR | 13.75 |

Medium Forks

| | | |
|---|---|---|
| 12345 | SXR | $11.90 |
| 12346 | SXXXR | 16.20 |

Twist Butters

| | | |
|---|---|---|
| 12347 | SXR | $13.20 |
| 12348 | SXXXR | 18.00 |

Sugar Shells

| | | |
|---|---|---|
| 12349 | SXR | $11.20 |
| 12350 | SXXXR | 13.75 |

LADLES—SXR Plate

| | | |
|---|---|---|
| 12351 | Cream | $16.80 |
| 12352 | Gravy | 22.40 |
| 12353 | Oyster | 48.80 |
| 12354 | Medium | 60.00 |
| 12355 | Punch | 90.00 |

KNIVES—SXR Plate

| | | |
|---|---|---|
| 12356 | Dess't HH | $22.95 |
| 12357 | Med HH | 25.00 |
| 12358 | Pie | 37.60 |

SPOONS—SXR Plate

| | | |
|---|---|---|
| 12359 | Coffee | $ 5.90 |
| 12360 | Orange | 7.50 |
| 12361 | Berry | 30.00 |
| 12362 | Berry Gilt | 37.20 |

### GLENLOSE
French Gray
Tea Spoons

| No. | | Doz. |
|---|---|---|
| 12363 | SXR | $5.95 |
| 12364 | SXXXR | 8.10 |

Dessert Spoons

| | | |
|---|---|---|
| 12365 | SXR | $10.60 |
| 12366 | SXXXR | 13.75 |

Table Spoons

| | | |
|---|---|---|
| 12367 | SXR | $11.90 |
| 12368 | SXXXR | 16.20 |

Dessert Forks

| | | |
|---|---|---|
| 12369 | SXR | $10.60 |
| 12370 | SXXXR | 13.75 |

Medium Forks

| | | |
|---|---|---|
| 12371 | SXR | $11.90 |
| 12372 | SXXXR | 16.20 |

Twist Butters

| | | |
|---|---|---|
| 12372 | SXR | $13.20 |
| 12374 | SXXXR | 18.00 |

Sugar Shells

| | | |
|---|---|---|
| 12375 | SXR | $11.20 |
| 12376 | SXXXR | 13.75 |

LADLES—SXR Plate

| | | |
|---|---|---|
| 12377 | Cream | $16.80 |
| 12378 | Gravy | 22.40 |
| 12379 | Oyster | 48.80 |
| 12380 | Medium | 60.00 |
| 12381 | Punch | 90.00 |

KNIVES—SXR Plate

| | | |
|---|---|---|
| 12382 | Dess't HH | $22.95 |
| 12383 | Med. HH | 25.00 |
| 12384 | Pie | 37.60 |

SPOONS—SXR Plate

| | | |
|---|---|---|
| 12385 | Coffee | $ 5.90 |
| 12386 | Orange | 7.50 |
| 12387 | Berry | 30.00 |
| 12388 | Berry Gilt | 37.20 |

### GRENOBLE
French Gray
Tea Spoons

| No. | | Doz. |
|---|---|---|
| 12389 | SXR | $5.95 |
| 12390 | SXXXR | 8.10 |

Dessert Spoons

| | | |
|---|---|---|
| 12391 | SXR | $10.60 |
| 12392 | SXXXR | 13.75 |

Table Spoons

| | | |
|---|---|---|
| 12393 | SXR | $11.90 |
| 12394 | SXXXR | 16.20 |

Medium Forks

| | | |
|---|---|---|
| 12395 | SXR | $11.90 |
| 12396 | SXXXR | 16.20 |

Twist Butters

| | | |
|---|---|---|
| 12397 | SXR | $13.20 |
| 12398 | SXXXR | 18.00 |

Sugar Shells

| | | |
|---|---|---|
| 12399 | SXR | $11.20 |
| 12400 | SXXXR | 13.75 |

LADLES—SXR Plate

| | | |
|---|---|---|
| 12401 | Cream | $16.80 |
| 12402 | Gravy | 22.40 |
| 12403 | Oyster | 48.80 |
| 12404 | Medium | 60.00 |
| 12405 | Punch | 90.00 |

KNIVES—SXR Plate

| | | |
|---|---|---|
| 12406 | Dess't HH | $22.95 |
| 12407 | Med HH | 25.00 |
| 12408 | Pie | 37.60 |

SPOONS—SXR Plate

| | | |
|---|---|---|
| 12409 | Coffee | $ 5.90 |
| 12410 | Orange | 7.50 |
| 12411 | Berry | 30.00 |
| 12412 | Berry Gilt | 37.20 |

### HANOVER
French Gray
Tea Spoons

| No. | | Doz. |
|---|---|---|
| 12413 | SXR | $5.95 |
| 12414 | SXXXR | 8.10 |

Dessert Spoons

| | | |
|---|---|---|
| 12415 | SXR | $10.60 |
| 12416 | SXXXR | 13.75 |

Table Spoons

| | | |
|---|---|---|
| 12417 | SXR | $11.90 |
| 12418 | SXXXR | 16.20 |

Dessert Forks

| | | |
|---|---|---|
| 12419 | SXR | $10.60 |
| 12420 | SXXXR | 13.75 |

Medium Forks

| | | |
|---|---|---|
| 12421 | SXR | $11.90 |
| 12422 | SXXXR | 16.20 |

Twist Butters

| | | |
|---|---|---|
| 12423 | SXR | $13.20 |
| 12424 | SXXXR | 18.00 |

Sugar Shells

| | | |
|---|---|---|
| 12425 | SXR | $11.20 |
| 12426 | SXXXR | 13.75 |

LADLES—SXR Plate

| | | |
|---|---|---|
| 12427 | Cream | $16.80 |
| 12428 | Gravy | 22.40 |
| 12429 | Oyster | 48.80 |
| 12430 | Medium | 60.00 |
| 12431 | Punch | 90.00 |

KNIVES—SXR Plate

| | | |
|---|---|---|
| 12432 | Dess't HH | $22.95 |
| 12433 | Med HH | 25.00 |
| 12434 | Pie | 37.60 |

SPOONS—SXR Plate

| | | |
|---|---|---|
| 12435 | Coffee | $ 5.90 |
| 12436 | Orange | 7.50 |
| 12437 | Berry | 30.00 |
| 12438 | Berry Gilt | 37.20 |

### NEW SUFFOLK
Bright or French Gray
Tea Spoons

| No. | | Doz. |
|---|---|---|
| 12439 | SXR | $5.95 |
| 12440 | SXXXR | 8.10 |

Dessert Spoons

| | | |
|---|---|---|
| 12441 | SXR | $10.60 |
| 12442 | SXXXR | 13.75 |

Table Spoons

| | | |
|---|---|---|
| 12443 | SXR | $11.90 |
| 12444 | SXXXR | 16.20 |

Dessert Forks

| | | |
|---|---|---|
| 12445 | SXR | $10.60 |
| 12446 | SXXXR | 13.75 |

Medium Forks

| | | |
|---|---|---|
| 12447 | SXR | $11.90 |
| 12448 | SXXXR | 16.20 |

Twist Butters

| | | |
|---|---|---|
| 12449 | SXR | $13.20 |
| 12450 | SXXXR | 18.00 |

Sugar Shells

| | | |
|---|---|---|
| 12451 | SXR | $11.20 |
| 12452 | SXXXR | 13.75 |

LADLES—SXR Plate

| | | |
|---|---|---|
| 12453 | Cream | $16.80 |
| 12454 | Gravy | 22.40 |
| 12455 | Oyster | 48.80 |
| 12456 | Medium | 60.00 |
| 12457 | Punch | 90.00 |

KNIVES—SXR Plate

| | | |
|---|---|---|
| 12458 | Dess't HH | $22.95 |
| 12459 | Med HH | 25.00 |
| 12460 | Pie | 37.60 |

SPOONS—SXR Plate

| | | |
|---|---|---|
| 12461 | Coffee | $ 5.90 |
| 12462 | Orange | 7.50 |
| 12463 | Berry | 30.00 |
| 12464 | Berry Gilt | 37.20 |

### TIPPED
Tea Spoons

| No. | | Doz. |
|---|---|---|
| 12465 | SXR | $5.10 |
| 12466 | SXXXR | 7.50 |

Dessert Spoons

| | | |
|---|---|---|
| 12467 | SXR | $ 9.40 |
| 12468 | SXXXR | 12.50 |

Table Spoons

| | | |
|---|---|---|
| 12469 | SXR | $10.65 |
| 12470 | SXXXR | 15.00 |

Dessert Forks

| | | |
|---|---|---|
| 12471 | SXR | $ 9.40 |
| 12472 | SXXXR | 12.50 |

Medium Forks

| | | |
|---|---|---|
| 12473 | SXR | $10.65 |
| 12474 | SXXXR | 15.00 |

Twist Butters

| | | |
|---|---|---|
| 12475 | SXR | $12.50 |

Sugar Shells

| | | |
|---|---|---|
| 12476 | SXR | $10.00 |

Fancy pieces not made in tipped pattern.

We can furnish any article made by Wm. A. Rogers. Send us your orders.

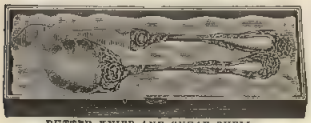
# Wm. A. Rogers "Horseshoe Brand" Fine Silver Plated Flatware

PUT UP IN FANCY LINED GLAZED PAPER BOXES

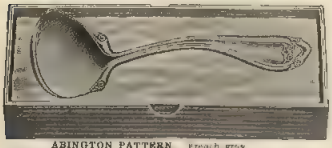
**We can furnish any article made by WM. A. ROGERS Send us your orders**

**BERRY SPOON**
Glenrose pattern. French gray.
No. 12479 Silver bowl ..... each $3.50
No. 12480 Gold bowl ..... each 3.45

**BUTTER KNIFE AND SUGAR SHELL**
Abington pattern. French gray
No. 12483 Silver bowl ..... per set $2.80
No. 12484 Gold bowl ..... per set 2.70



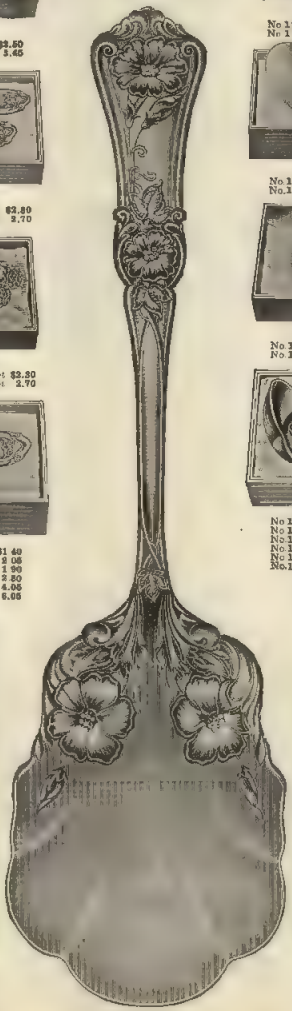
**BUTTER KNIFE AND SUGAR SHELL**
Hanover pattern. French gray
No. 12487 Silver bowl ..... per set $2.80
No. 12488 Gold bowl ..... per set 2.70



**ABINGTON PATTERN** French gray
No. 12491 Cream Ladle. Silver bowl ..... each $1.40
No. 12492 Cream Ladle. Gold bowl ..... each 2.05
No. 12493 Gravy Ladle Silver bowl ..... each 1.90
No. 12494 Gravy Ladle Gold bowl ..... each 2.80
No. 12495 Oyster Ladle Silver bowl ..... each 4.05
No. 12496 Oyster Ladle Gold bowl ..... each 6.05

**SOUP SET**
Hanover pattern. French gray.
Six soup spoons, one ladle.
No. 12503 Silver bowls ..... per set $10.65

**SIX OYSTER FORKS**
Grenoble pattern French gray.
No. 12505 Silver tines ..... per set $3.95



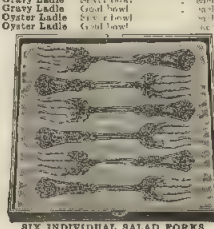
**BERRY SPOON**
Grenoble pattern. French gray.
No. 12477 Silver bowl ..... each $3.50
No. 12478 Gold bowl ..... each 3.45

**BERRY SPOON**
Hanover pattern. French gray.
No. 12481 Silver bowl ..... each $3.50
No. 12482 Gold bowl ..... each 3.45

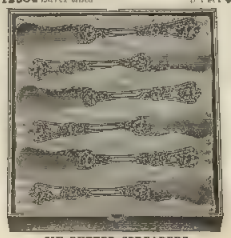
**BERRY SPOON**
Abington pattern. French gray
No. 12485 Silver bowl ..... each $3.50
No. 12486 Gold bow. ..... each 3.45

**BUTTER KNIFE AND SUGAR SHELL**
Glenrose pattern. French gray.
No. 12489 Silver bowl ..... per set $2.80
No. 12490 Gold bowl ..... per set 2.70

**GRENOBLE PATTERN.** French gray
No. 12497 Cream Ladle. Silver bowl ..... each $1.40
No. 12498 Cream Ladle Gold bowl ..... each 2.05
No. 12499 Gravy Ladle Silver bowl ..... each 1.90
No. 12500 Gravy Ladle Gold bowl ..... each 2.80
No. 12501 Oyster Ladle Silver bowl ..... each 4.05
No. 12502 Oyster Ladle Gold bowl ..... each 6.05



**SIX INDIVIDUAL SALAD FORKS**
Grenoble pattern French gray
No. 12504 Silver tines ..... per set $6.90



**SIX BUTTER SPREADERS**
Grenoble pattern French gray
No. 12506 Per set ..... $5.10

# Fancy Mantel Clocks

Fitted With Fine American Made Movements, Guaranteed in Every Respect.

**10069**
Candelabra,
Rich Roman Gold Plated,
Height 11 inches,
**$24 00** per pair.
Shipping Weight about 20 lbs., per pair.

**10070**
Rich Roman Gold Plated,
8 Day, Half hour Strike, Gong,
3-inch Ivory Dial, Ivory Center
Visible Escapement,
Glass Front Sash and Bezel, Beveled Glass,
Height 12 inches, Width 7½ inches,
**$25 65** each
Shipping Weight about 10 lbs.

**10071**
Candelabra,
Rich Roman Gold Plated
Height 11 inches,
**$24 00** per pair.
Shipping Weight about 20 lbs., per pair.

**10072**
Candelabra,
Ormolu Gold Plate,
Height 13½ inches,
Width 11½ inches,
**$37 15** per pair.
Shipping Weight about 20 lbs., per pair.

**10073**
Ormolu Gold Plate,
8 Day, Half-hour Strike, Cathedral Gong,
4 inch Porcelain Dial,
Height 15½ inches,
Width 10½ inches,
**$37 15** each,
Shipping Weight about 10 lbs.

**10074**
Candelabra,
Ormolu Gold Plate,
Height 13½ inches,
Width 11½ inches,
**$37 15** per pair.
Shipping Weight about 20 lbs., per pair.

All Prices Subject to the Regular Discount, Except Those on Diamonds. Pages 1 to 16.

# CARBURETORS

## SCHEBLER

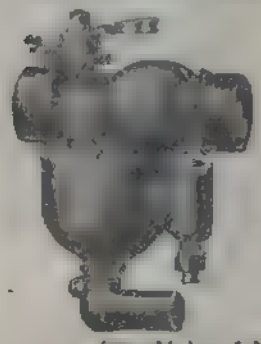
### MODEL L

**With Water Jacket**

This Model is Designed for the Exacting Needs of High Speed Motors, Where Low Throttling, Rapid Acceleration, Maximum Speed and Power are Required. It is the Most Improved Type of Lift Needle Carburetor, and is so Designed that the Amount of Fuel Entering the Motor is Automatically Controlled by Means of a Raised Needle Working Automatically with the Throttle. The Adjustment or Control of Gasoline in this Instrument can be Adjusted for Low, Intermediate or High Speed. Each Adjustment being [illegible] Other Adjustments.

[illegible] Connected with the Hot Water. Also a Bend for Connecting or Taking Warm Air From Exhaust Manifold into the Initial Air Opening of the Carburetor by Means of a Hot Air Drum. (Air Drum Not Included.)

| | | Each | |
|---|---|---|---|
| No. L1 | 1 Inch Iron Pipe Size; Weight 7 lbs... | $18 00 | 13 50 |
| No. L1½ | [illegible] Iron Pipe Size, Weight 7 lbs | 20 00 | [illegible] |
| No. L1½ | [illegible] Iron Pipe Size, Weight 8 lbs | 25 00 | [illegible] |
| No. L2 | 2 inch Iron Pipe Size; Weight 10 lbs.. | 50 00 | [illegible] |
| No. L2½ | [illegible] Iron Pipe Size, Weight 12 lbs | 80 00 | [illegible] |



### MODEL H

**For Motorcycles**

This Model is Designed for Motorcycles and Small High Speed Motors, Where Quick Starting, and Perfect Control is Required. The Supply of Gasoline is Controlled by the Throttle Lever, an Adjustment for Low, Intermediate and High Speeds. An Air Bend is also Supplied for the Constant Air Opening that it can be Turned to Any Convenient Angle in order to Draw Warm Air off the Cylinders.

**Give Make of Motorcycle When Ordering**

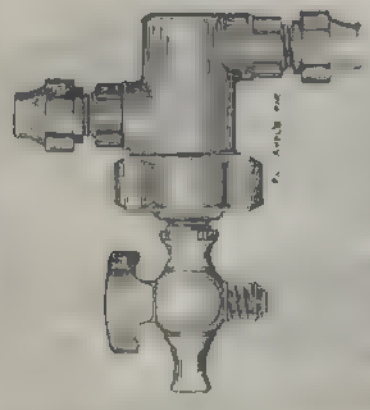
| | | Each |
|---|---|---|
| No. H1 | [illegible] Iron Pipe Size, Weight 4½ lbs | $15 00 |
| No. H1 | [illegible] Iron Pipe Size, Weight 5 lbs. | 10 00 |

## GASOLINE STRAINERS

### SCHEBLER

This Strainer is to be Put in the Gasoline Line Between the Tank and the Carburetor; it will Catch Dirt or any Foreign Matter that May be in the Gasoline. Its Use will Eliminate a Large Percentage of Carburetor Trouble. It is Easy to Attach and Should be Used on Every Car. Fits ⅜-16 inch Pipe.

| | Each | |
|---|---|---|
| No. SGS—Weight 1¼ lbs. | $3.70 | 2.75 |



### IDEAL

This Strainer Is Designed for Use on Automobiles, either Connected Direct to the Carburetor or, the Fuel Line to the Gasoline Comes in at the Lower Opening and is Forced Up Against and Through the Cone Screen, which is Made of 150 Mesh Copper Wire Cloth and Lasts Forever. The Gasoline Then Passes Out the Upper Opening. The Wire Cloth Effectively Removes the Dirt and Water which is present in even the Best Grades of Gasoline. This Strainer is Provided with a Pet Cock, by which the Water and Dirt May be Drained off from Time to Time as Desired. When Connecting These Strainers Direct to the Carburetor an Ell Connection is Usually Used.

| | Each | |
|---|---|---|
| No. 401 For ¼ inch Tubing.. | $2 20 | |
| No. 402 —For 5-16 inch Tubing | 2 20 | |

One in a Box, Weight 8 ozs.

### MODEL D

**Without Water Jacket**

The Model D is the Original Schebler Carburetor, Simple in Adjustment and [illegible] Made for Marine Motors, Stationary Engines, and all Motors where Low Throttling Conditions are Not Required. This Carburetor is Made Standard with the Shutter Air Valve in the 1-inch and 1¼ inch Sizes. The ¾-inch 1½ inch and 2 inch Sizes are Supplied with the Flusher in the Lid. If Required other than Standard, Special Instructions Should be Given on the Order.

The Air Intake and Throttle are Interchangeable [illegible] Carburetors can be Made to Either Vertical or Horizontal Motors. This Standard Carburetor has the Slide Disk Throttle in the Horizontal Position.

| | | Each | |
|---|---|---|---|
| No. D¾ | —¾ inch Iron Pipe Size; Weight 5¾ lbs. | $15 00 | 11 25 |
| No. D1 | —1 inch Iron Pipe Size; Weight 6 lbs | 16.00 | 12.00 |
| No. D1¼ | —1¼ inch Iron Pipe Size, Weight 6 lbs.. | 17 00 | 12 75 |
| No. D1½ | —1½ inch Iron Pipe Size Weight 8½ lbs | 22 00 | 16.50 |
| No. D2 | [illegible] Iron Pipe Size Weight [illegible] | 44 00 | 33.00 |

### MODEL O

**For Four and Six Cylinder Cars**

This is a Double Jet Carburetor with Fixed Size Nozzles or Combination Jets. Has Two Gasoline Adjustments: An Adjustment at the Bottom for Low Speed, and an Adjusting Screw at the Needle Valve for Intermediate and High Speeds. An Auxiliary Air Valve, which is Set to Open at Normal Speed Automatically by a Regulated Spring and which Operates Automatically with the Throttle. Has an Exhaust Jacket with Half Inch Hot Air Connection for Conveying the Heat of the Exhaust Gases from the Exhaust Manifold into the Jacket, Insuring Instantaneous Results After Starting. Heat Can be Regulated by a Shutter in the Jacket. Has a Special Starting Feature that Insures Starting Under the Worst Conditions.

| | | Each | |
|---|---|---|---|
| No. O1 | —1 inch Iron Pipe Size; Weight 8 lbs.. | $25.00 | 18.75 |
| No. O1¼ | [illegible] Iron Pipe Size, Weight [illegible] | 25 00 | 18.75 |
| No. O1½ | [illegible] Iron Pipe Size, Weight [illegible] | 29 00 | 21.75 |

## THERMO-GASKETS

Thermo-Gasket is a Little Brass Gasket Less than Half an inch Thick which Fits between the Carburetor and Intake Pipe of a Motor. It Takes the Place of a Hot Water Jacketed Carburetor, and Other Devices Designed to Improve Carburation.

[illegible] Opening through which the Mixture Passes is an Annular Passage Conducting a Continual Flow of Hot Gases from the Right at Many Holes Around Central Square Copper Tubing Having Passed Through the Gasket which Communicates Heat Both to the Intake Pipe and to the Gasket Proper. Exhaust Gases are Led to the Upper Air by Similar Tubing that Leads from the Intake Manifold.

In the Opening through which the Mixture Passes are Diagonal Fins which not only Raise the Heat to the Mixture, but also Impart to it a Whirling Motion.

Y [illegible] Has no Moving Parts. Nothing to Wear Out. Moreover when you Open the Throttle Fully there is No Obstruction of the Intake Pipe.

The Motor Runs Smoother and Slower, or Low Throttle. It Idles or Low Throttle as you Will Have Out of Fifteen to Twenty Miles.

You are Rid of that Jerk and Pour Immediately [illegible] Gasoline Gets Diffused Mixture from the Other and the Motor Turns Over Smoothly when Running Idle.

The Water in the Radiator Is much Less Apt to Boil and the Motor Less Apt to Overheat.

You won't Always be Scraping Carbon from the Cylinders, the Oil Will Lubricate Instead of Burn, and you will Use Less Oil.

When you Open the Throttle the Motor will Respond at Once; you won't have to wait until the Over-Rich Wet Mixture Is Consumed.

You won't Open the Throttle Quite so Wide to Climb a Hill.

With More Power on Low Throttle You Will Save Much Gasoline.

| | | Each | |
|---|---|---|---|
| No. TG1 | For 1 inch Carburetor with Three Couplings | $5 00 | 3 00 |
| No. TG1¼ | For 1¼ inch Carburetor with Three Couplings | 5 40 | 3 25 |
| No. TG1½ | For 1½ inch Carburetor with Three Couplings. | 5 85 | 3 50 |

Weight 8 ozs.

# KLAXON SPECIAL HORNS

See opposite Page for Regular Horns

### KLAXON, TYPE L

This is the Long Horn Type and is the Most Popular and Best Selling Klaxon. Can Be Attached to Either Right or Left Hand Steering Gear by Changing from Right to Left Hand Stem, Removing Cover Screws and Turning to Left. Comes Complete with Push Button and 10 feet of Cord

| | Each |
|---|---|
| No. LB —Polished Brass | $35.00 |
| ✣ No. LBE —Black Enameled | 35 00 |
| No. LN —Nickel Plated | 35 00 |
| ✣ No. LGM—Gun Metal | 35 00 |

One in a Case; Weight 20 lbs.

### KLAXON, TYPE S

Made with the Same Motor and of the Same Construction as the Type L, Only Has Short Horn Instead of a Long One. A Great Many Car Owners Prefer the Short Horn on Account of Taking Up Less Room. Can be Operated Either by the Right or Left Hand Steering Gear. Gives the True Klaxon Warning Note as the Type L. Complete with Push Button and 10 Feet of Cord

| | Each |
|---|---|
| No. SB —Polished Brass | $35 00 |
| No. SBB —Black Enameled and Brass | 35 00 |
| No. SBN —Black Enameled and Nickel | 35 00 |
| ✣ No. SBE —Black Enameled | 35 00 |
| ✣ No. SN —Nickel Plated | 35 00 |
| ✣ No. SGM —Gun Metal | 35 00 |

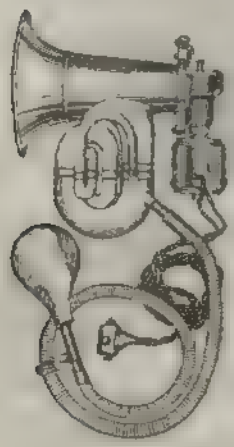
One in a Case; Weight 12 lbs.

### KLAXON, MARINE DECK

On the Water the Klaxon is Audible for Two Miles or More. In Fog its Blast is Always Clearly Transmitted Thus Adding to Its Penetration. Fog Bank is Due to the Peculiar Saw Tooth Character of its Sound Waves. Fitted on Swivel Bracket which Permits of the Horn Being Easily Removed for Storing. Comes Complete with Push Button and 10 Feet of Covered Insulated Wire.

| | Each |
|---|---|
| ✣ No. MB —Polished Brass | $35 00 |
| ✣ No. MBB —Black Enameled and Brass | 35 00 |
| ✣ No. MBN —Black Enameled and Nickel | 35 00 |
| ✣ No. MBE —Black Enameled | 35 00 |
| ✣ No. MN —Nickel Plated | 35 00 |
| ✣ No. MGM—Gun Metal | 35 00 |

One in a Case; Weight 23 lbs.



### KLAXON, COMBINATION

This is a Combination Electric and Bulb Horn; Can Be Operated by the Push Button or by the Rubber Bulb as Desired; this Fits into the Same Space as an Ordinary Klaxon Horn and Does Away with the Necessity of Using a Separate Bulb Horn. The Klaxon is Combined with a Reed Horn, the Deep Vibrant Note of the Latter is Intensified by the Klaxon Diaphragm Acting on the Sounding Board Behind it; Comes Complete with Push Button and 10 Feet of Insulated Wire.

| | Each |
|---|---|
| ✣ No. CB —Polished Brass | $50 00 |
| ✣ No. CBB—Black Enameled and Brass | 50 00 |
| ✣ No. CBN Black Enameled and Nickel | 50 00 |
| ✣ No. CBE Black Enameled | 50 00 |
| ✣ No. CN —Nickel Plated | 50 00 |
| ✣ No. CGM—Gun Metal | 50 00 |

One in a Case; Weight 23 lbs.

### KLAXONETTE, TYPE L

Has the True Klaxon Warning Note. Is Smaller than the Klaxon, But Operates on the Same Principle. Especially Designed for Small Cars. Comes Complete with Push Button and 10 Feet of Insulated Wire

| | Each |
|---|---|
| No. KLB —Polished Brass | $20.00 |
| ✣ No. KLBE —Black Enameled | 20 00 |
| No. KLN —Nickel Plated | 20 00 |
| ✣ No. KLGM—Gun Metal | 20 00 |

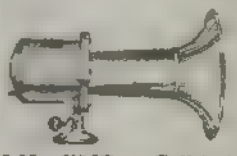
One in a Case; Weight 10 lbs.

### KLAXONETTE, TYPE S

Operated on the Same Principle as the Type S Klaxon; But is Smaller and Lighter, Being Especially Adapted for Small Cars; is Wound for Six Volts and Takes Only About Two Amperes at that Voltage; All the Power Necessary Can be Had from Four or Six Dry Cells. Comes Complete with Push Button and 10 Feet Insulated Wire

| | Each |
|---|---|
| No. KSB —Polished Brass | $20 00 |
| No. KSBB —Black Enameled and Brass | 20 00 |
| No. KSBN —Black Enameled and Nickel | 20 00 |
| ✣ No. KSBE —Black Enameled | 20 00 |
| ✣ No. KSN —Nickel Plated | 20 00 |
| ✣ No. KSGM—Gun Metal | 20 00 |

One in a Case; Weight 6½ lbs.

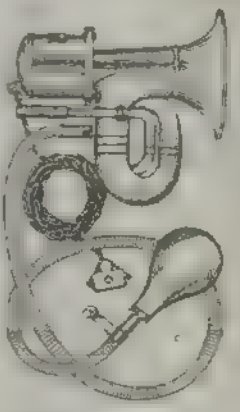


### KLAXONETTE, MARINE DECK

Made with the Same Horn as the Type L, But Has a Swivel Base which Permits the Horn Being Faced in any Direction or Removed Instantly. Complete with Push Button and 10 Feet Insulated Wire.

| | Each |
|---|---|
| ✣ No. KMB —Polished Brass | $20 00 |
| ✣ No. KMBB—Black Enameled and Brass | 20 00 |
| ✣ No. KMBN —Black Enameled and Nickel | 20 00 |
| ✣ No. KMBE —Black Enameled | 20 00 |
| ✣ No. KMN —Nickel Plated | 20 00 |
| ✣ No. KMGM—Gun Metal | 20 00 |

One in a Case; Weight 10 lbs.



### KLAXONETTE, COMBINATION

This is a Simple Attractive Fixture that Combines the Klaxonette with Electric Push Button and 10 Feet of Insulated Cord.

| | Each |
|---|---|
| ✣ No. KCB —Polished Brass | $30 00 |
| ✣ No. KCBB—Black Enameled and Brass | 30 00 |
| ✣ No. KCBN—Black Enameled and Nickel | 30 00 |
| ✣ No. KCBE—Black Enameled | 30 00 |
| ✣ No. KCN —Nickel Plated | 30 00 |
| ✣ No. KCGM —Gun Metal | 30 00 |

One in a Case; Weight 14 lbs.

### KLAXET—TYPE L

Has the Klaxon Warning Signal and is the Same Principle as the Klaxonette, but slightly smaller in size. Complete with Push Button and Wire.

| | Each |
|---|---|
| No. KBE —All Black Enameled | $12 00 |
| No. KN —All Nickel Plated | 12.00 |

One in a Case; Weight 5 lbs.

## EXTRA PARTS FOR KLAXON HORNS

| | Each |
|---|---|
| ✣ Push Buttons with Wire and Terminals | $2 25 |
| Push Buttons Only | 1 25 |
| ✣ Wire Only, 10 ft Lengths | 60 |
| Terminals | 25 |
| ✣ Diaphragm with Cork Washers | 1 50 |
| ✣ Brushes | $0 20 |
| ✣ Brush Holders | .30 |
| ✣ Bottom Plate with Balls and Retainers | 1 50 |
| ✣ Rotors | .60 |
| ✣ Projector Screws | 04 |
| ✣ Type L Klaxon Projector | $5 00 |
| ✣ Type S Klaxon Projector | 3.00 |
| ✣ Type L Klaxonette Projector | 2.50 |
| Projectors Come Complete with Collar. | |
| ✣ Special Attaching Brackets | 1 00 |

**Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Newark, N. J.**

# CARBURETORS

## SCHEBLER

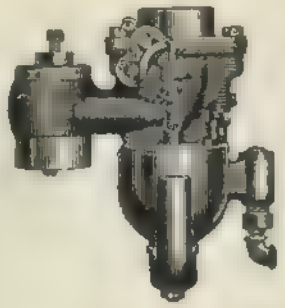
Made of brass. The bowl combines compactness with practicability, serving for a reservoir as well as embodying the float chamber. Float is made of cork, heavily shellaced and hinged. Gasoline is supplied through a reversible union which permits the feed pipe to run in any direction desired. Throttle is interchangeable, with an automatic air valve so that it can be used on either top or side of bowl as occasion may demand. Bowl is cleaned through a drain cock in bottom. Spraying nozzle is in center of the chamber which prevents changes in the quality of the mixture such as occur in carburetors where the nozzle is located on one side of the oil reservoir. This carburetor secures a uniform mixture of gas and air at different engine speeds. When motor is running at minimum speed, air is drawn through an aperture of fixed dimensions. As the speed increases and the flow of gasoline becomes greater, more air is required, and the additional supply is furnished by the compensating air valve which opens wider and wider as the speed of the engine increases. This valve, when once adjusted, admits a regular supply of air proportionate to the degree of vacuum produced by the piston of the motor.

The accompanying list shows the size carburetor needed for a particular bore and stroke on motors of four cylinders or less.

| Bore | Stroke | Size |
|---|---|---|
| 3 | 3 | ¾ |
| 3 | 3¾ | ¾ |
| 3¾ | 4 | 1 |
| 4 | 4 | 1 |
| 4 | 5 | 1¼ |
| 5 | 5 | 1¼ |
| 5 | 5½ | 1½ |
| 6 | 6 | 1½ |
| 7 | 8 | 2 |
| 8 | 10 | 2½ |
| 12 | 14 | 3 |

In ordering a carburetor state size and number of cylinders, size of intake to motor, and give sketch or description of intake pipes, name and model of automobile or make of engine, and if possible the year in which the car was made.

Nos. M530 to M533



Nos. M511 to M516

### MODEL D

Model "D" is the standard carburetor. It has been improved by the addition of a butterfly shutter placed in the air intake, which should be attached to a wire running to some convenient place near the starting crank. When cranking pull the shutter closed. This draws a rich mixture into the cylinders, causing the motor to start on the first or second turn of the crank. Another improvement has been made on the air valve adjusting screw. A strong friction spring is placed around the adjusting screw between the lock nut and air valve casting, preventing the lock nut from jarring loose and allowing the air adjustment to change.

| | Each |
|---|---|
| No. M530—1-inch standard iron pipe size; weight 5½ lbs. | $16 00 |
| No. M531—1¼-inch standard iron pipe size; weight 5½ lbs. | 17 00 |
| No. M532—1½-inch standard iron pipe size; weight 8½ lbs. | 22 00 |
| No. M533—2-inch standard iron pipe size; weight 8½ lbs. | 44 00 |

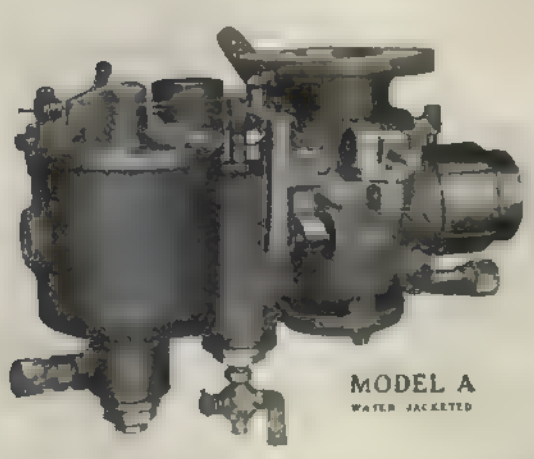
### MODEL L

Model L embodies several new features. The air valve is interchangeable, so that air can be drawn from either top or bottom. The amount of fuel entering the mixing chamber is controlled automatically by a needle valve, directly connected to a roller operating on a cam spring adjustable to different angles, adjustment for low speed is made directly by the needle valve, while those for intermediate speeds are obtained by opening the throttle so that the roller on the track beneath the dial, is in line with the points on dial D, and adjustment for high speed is made by similar reference to dial E. The use of this model enables the motor to be throttled down to the lowest possible number of revolutions, automatically giving a perfect mixture at all speeds.

| | Each |
|---|---|
| No. M511—1-inch standard iron pipe size; weight 5½ lbs. | $18 00 |
| No. M512—1¼-inch standard iron pipe size; weight 5½ lbs. | 20.00 |
| No. M513—1½-inch standard iron pipe size; weight 5¾ lbs. | 25 00 |
| No. M514—1¾-inch standard iron pipe size, weight 5¾ lbs. | $30 00 |
| No. M515—2-inch standard iron pipe size; weight 6 lbs. | 60 00 |
| No. M516—2½-inch standard iron pipe size; weight 6 lbs. | 80 00 |

## *RAYFIELD

Have three air intakes, which furnish air at all speeds; the mechanical air opening operates when throttle is open beyond the one-quarter point; the automatic air valve is effective at varying speeds. The improved float maintains a correct gasoline level; it is perfectly adapted to gravity and pressure systems; easy to adjust; throttle stop arm fitted with positive locking device; improved strainer trap permits easy removal of dirt; the needle valve and mechanical air valve are operated simultaneously by the throttle, thus insuring a correct proportion of fuel and air.



MODEL A
WATER JACKETED

### MODEL A

Water jacketed type.

| | | Each |
|---|---|---|
| No. M1630—Single jet; 1-inch standard iron pipe size | $25.00 | $ 33 34 |
| No. M1631—Single jet; 1¼-inch standard iron pipe size | 30.00 | 40 00 |
| No. M1632—Single jet; 1½-inch standard iron pipe size | 35 00 | 46.67 |
| No. M1633—Double jet; 1¾-inch standard iron pipe size | 32 50 | 43.34 |
| No. M1634—Double jet; 1½-inch standard iron pipe size | 37.50 | 50.00 |
| No. M1635—Double jet; 1⅝-inch standard iron pipe size | 40.00 | 53.34 |
| No. M1636—Double jet; 2-inch standard iron pipe size | 45 00 | 60 00 |
| No. M1637—Double jet; 2½ inch standard iron pipe size | 80 00 | 106 68 |
| No. M1638—Double jet; 3-inch standard iron pipe size | 100.00 | 133 34 |

### MODEL B

Non-water jacketed type.

| | | Each |
|---|---|---|
| No. M1639—Single jet; 1-inch standard iron pipe size | $20.00 | $ 26 67 |
| No. M1640—Single jet, 1¼-inch standard iron pipe size | 22 50 | 30 00 |
| No. M1641—Single jet, 1½ inch standard iron pipe size | 25 00 | 33.34 |
| No. M1642—Double jet; 1½-inch standard iron pipe size | 27.50 | 36.67 |

Packed, one in box.

When ordering carburetors give diameter of steering post; distance from steering wheel to carburetor and make of car.

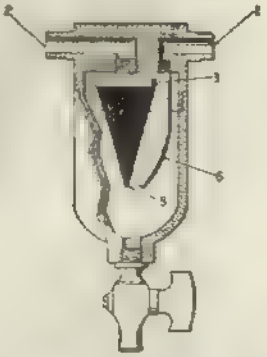
NOTE—Goods marked thus (*) are for factory shipment only.

## BATTERY METERS

To ascertain the strength or specific gravity of a battery solution; heavy glass cylinder, with bulb directly attached to cylinder; flexible rubber tube, with glass tip attached to cylinder at bottom; scale 1150 to 1250

| | Doz |
|---|---|
| No. M4910—Complete in wood box with hinged cover and snap catch; weight per dozen 12 lbs | $19 20 |

## AUTO FILTERS

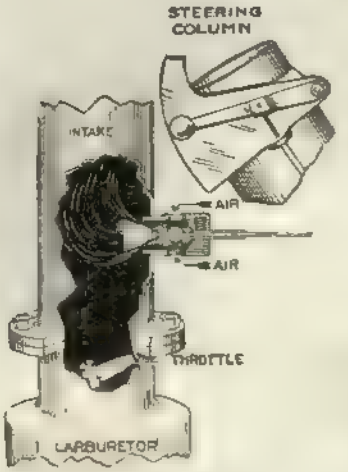


Crum's Auto Filter prevents a large number of engine troubles that originate in the carburetor, as it removes water, dirt or other foreign substances from the gasoline. It is made entirely of brass, all parts interchangeable and may be taken apart or the screen removed for cleaning without any tools. It is furnished with clamps and bolts and may be readily attached to the frame of any automobile.

| | Each |
|---|---|
| No. M517—Crum s; weight 12 oz. | $ 5.00 |

Packed, one in box.

## GASOLINE SAVERS




Small brass cylinder valve; screws into the intake pipe of a gasoline engine; taper plunger at inner end of cylinder opens and closes air passage, controlled by lever attached to steering post, below the steering wheel; saves 20 to 40 per cent on gasoline bills; increases speed and power; starts motors easier; benefits any car regardless of carburetor or engine equipments.

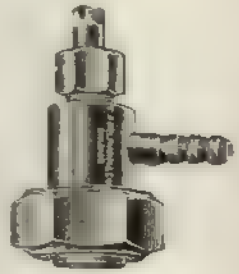
| | Each |
|---|---|
| No. M983—Brass, cannot rust, corrode or get out of order | $ 7.50 |
| No. M984—Nickel; otherwise same as No. M983 | 7 50 |

## GASOLINE HYDROMETERS

These instruments cover a range of Baume Scale from 60 to 85 degrees.

| | Doz |
|---|---|
| No. M910—Hydrometer weight per dozen 3 lbs. | $ 8 00 |

Packed, one in flannel bag, enclosed in glass testing jar and encased in wooden carrying case 4½ inches long.

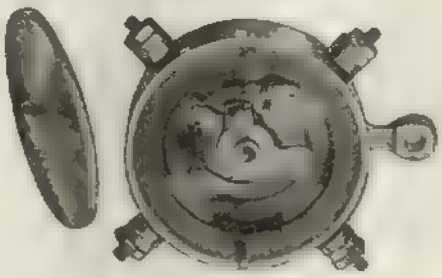


## REDUCERS

| | Each |
|---|---|
| No. M518—Presto; polished brass; fits any make of gas tank; reduces and regulates the pressure. | $ 1 00 |

## TIMERS

### MILWAUKEE



These timers are of the self-adjustable roller type, dust-proof and lathe finished throughout. The main case and cover are cast in nickel aluminum. The waterproof fibre ring, smoothly finished, is pressed into the case chamber and fastened in place by five flat-headed screws. It has half-round pockets milled in it for the pressed in contact inlets, which are cut from soft drill rod, tapped, pinned and adjusted with studs. The stud of each contact inlet is insulated from the case with a fibre ring fastened in position with a round slotted lock nut and adjusted with two hexagon brass nuts for fastening the wires. The lower part of the case is bored to receive an oil-ground bronze bearing. The hollow machined shaft running in this bearing is adjusted with a removable hinged finger constructed with a roller and self acting spring. The hardened tool steel roller running in oil on the inside of the fibre ring surface, makes the contact when it touches the steel inlets. The end of the hollow shaft is mounted with collar, lock nut and set screw, and when the timer is adjusted to the motor the hollow shaft slips over the cam shaft and is held in position by set screws and lock nuts. The cover can easily be removed by loosening the two threaded bronze handles. The removable cover is sufficiently stiff that it may be screwed down tight enough to exclude water and dirt, and holds the lubricating oil within the timer instead of allowing it to escape.

| | |
|---|---|
| No. M521—For one-cylinder engine; weight 1½ lbs. | $ 5.10 |
| No. M522—For two-cylinder engine; weight 2 lbs. | 5 20 |
| No. M524—For four-cylinder engine; weight 2½ lbs. | 5 40 |

Packed, one in box.

# SEARCHLIGHTS

ACETYLENE

Fig 1560

ELECTRIC—Cabin Type

Fig 1561

## ACETYLENE SEARCHLIGHTS

| Number | | | | | |
|---|---|---|---|---|---|
| Diameter | inches | 6 | 7 | 8 | 8 |
| Depth | " | 8 | 8½ | 11 | 10 |
| Height | " | 13 | 15 | 17 | 17 |
| Price | each | $ 25 | $ 26.25 | $ 30.00 | $ 34.50 |

Nos. 226, 227 and 228 are deck base type. No. 258 is pivot bracket pattern.

## ELECTRIC SEARCHLIGHTS Cabin Type

| Number | | | | |
|---|---|---|---|---|
| Size of reflector | inches | 10 | 8 | *10 |
| Price, polished brass | each | $ 16.00 | $ 21.00 | $ 25.00 |
| " Nickel-plated | " | 17.50 | 25.00 | 30.00 |

*10-inch size has 12-inch flare.

Electric searchlights are equipped with Tungsten bulbs, silver-plated parabolic reflector and special focusing device.

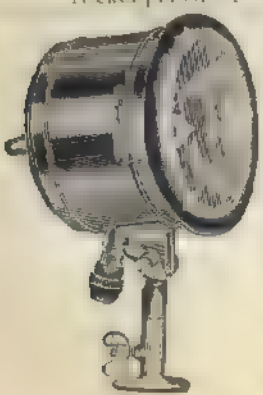


Fig 1561

## ELECTRIC SEARCHLIGHTS—Deck Type

| Number | | 145 | 146 | 148 | 150 |
|---|---|---|---|---|---|
| Size of reflector | inches | 5 | 6½ | 8 | *10 |
| Price, polished | each | 9.00 | 13.00 | 17.00 | 27.50 |
| " Nickel-plated | " | 10.00 | 14.30 | 18.70 | 30.25 |

*10-inch size has 12-inch flare.

Electric searchlights are equipped with Tungsten bulbs, silver plated parabolic reflector and special focusing device.

# BINNACLE HEADS AND LIGHTS

## BINNACLE HEADS—For Liquid Compasses

BELL SHAPE

Fig 1562

SQUARE

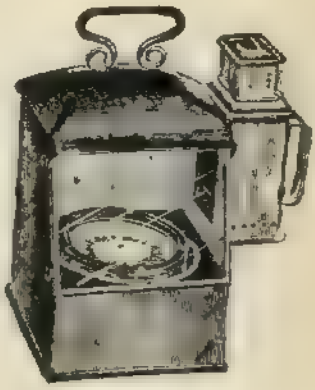


Fig 1563

| Style | Bell Shape | | Square | |
|---|---|---|---|---|
| Number | 1 | 2 | 1 | 2 |
| For compass ..... inches | 2 | 2 5/8 | 3 | 4 |
| Price, polished brass, with one lamp ..... each | 12.00 | 14.00 | 15.00 | 21.00 |
| " " " " two lamps .... " | ..... | ..... | 18.00 | 23.00 |

MOTOR BOAT BINNACLE

Fig 1564

BINNACLE LIGHT

Fig 1565

## MOTOR BOAT BINNACLES With 2-Inch Liquid Compass

| | | |
|---|---|---|
| Price, without glass top | ....each | 10.00 |
| " With " | " | 12.00 |

## BINNACLE LIGHTS

| Number | 1 | 2 | 3 |
|---|---|---|---|
| Size of glass in clear .... inches | 2 x 4 | 3 x 4 | 3 1/4 x 5 1/4 |
| Height of frame .... " | 5 | 5 3/4 | 6 3/4 |
| Extreme height .... " | 7 3/4 | 8 3/4 | 10 |
| Width of base ..... " | 3 1/4 | 4 1/4 | 5 |
| Price, polished brass, each | 2 50 | 3 00 | 3 50 |

# Auto-Strop Safety Razor

**STROPPING**

Move razor to and fro on strop a few times Result keen edge quick. No experience required no trouble— no time lost—smooth shave every time—no constant blade expense.

**STROPS ITSELF**

The only safety razor automatically stropping itself without removing blade or any part.

**PRICES EACH**

The Auto-Strop razor is far quicker and handier than a no-stropping razor.

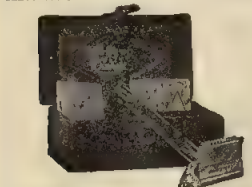
**A QUICK SHAVER**
**A TIME SAVER**
**A BLADE SAVER**

Easy selling and every sale makes an enthusiastic customer.

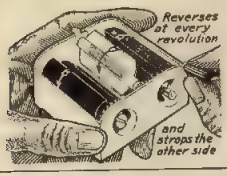
The most delightful shave is the shave the head barber gives you. You can get that identical delightful head-barber shave with the Auto-Strop Razor because it is simply the same edge that the head barber uses, only it is ingeniously constructed so that a novice can strop it as expertly as the head barber, and can shave with it as expertly as the head barber, and can't cut himself.

Strops, shaves [illegible] without detaching blade

**THE "SANITARY" (Patented)**
consists of heavily silver plated razor twelve blades, strop, fine quality shaving brush and soap [illegible] ventilated leather case, round ends size 3¾x5 inches with ivory celluloid lined, ventilated, moisture-proof compartments.
No **801** Complete set .. . **$19.65**



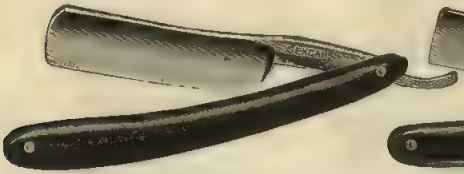
Heavily silver plated self-stropping razor, twelve blades and strop in handsome grain leather case, size 2x4 inches.
No. **800** Each .. .. **$13.65**
Extra blades per dozen. **2.65**
Shell horsehide strops, each . . . . . **.35**




**TWINPLEX ROTARY STROPPER**
For safety razor blades, strops two edges at once. Guaranteed for 10 years, blades will keep a keen cutting edge with a few turns of the crank.
No **10** .. .. ..

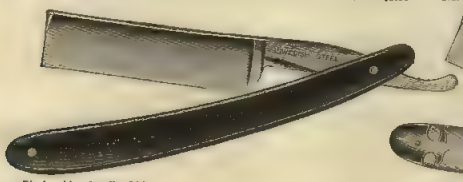
# FINE IMPORTED RAZORS

**Hand Forged, Full Crocus, Polished Blades, Every Razor Fully Guaranteed. Illustrations are Reduced Size. Prices Each.**

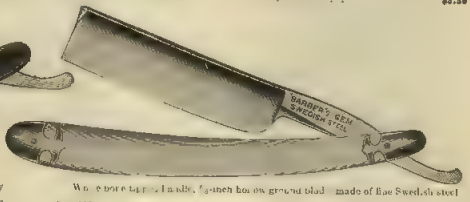


Black rubber handle, ⅝-inch hollow ground blade of fine crucible steel
No. 406 ..... $3.50

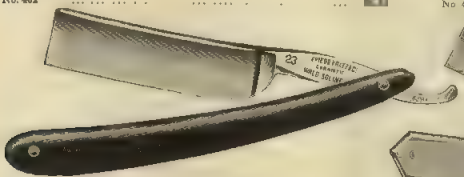
Black rubber handle, ⅝-inch hollow ground blade, made of finest Swedish steel.
No. 401 ..... $2.50



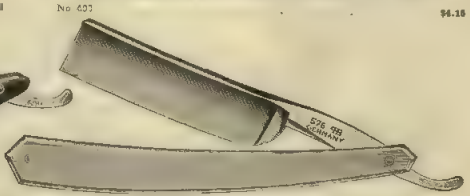
Black rubber handle, ⅝-inch full hollow ground blade, made of the very finest Swedish steel
No. 402 ..... $3.00



White bone fancy handle, ⅝-inch hollow ground blade made of fine Swedish steel
No. 403 ..... $4.15



Black rubber handle, ⅝-inch full hollow ground blade, made of the finest English tool steel.
No. 404 ..... $3.00



Fine white fancy handle, ⅝-inch full hollow ground blade made of the finest English tool steel; the highest grade razor that can be produced
No. 405 ..... $6 65

## ZIG ZAG Automatic Stropper.

Model No. 1

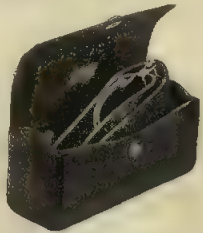
**ATTRACTIVE COUNTER DISPLAY BOX**

Each ZigZag Automatic Stropper is packed in a neat pasteboard carton, with book of directions and certificate of inspection and extra holders enclosed. Six small cartons are packed in larger carton, which unfolded makes an attractive counter display box, as shown herewith. When displayed in this manner the ZigZag Stropper sells quickly

Per dozen ..... $41.50
Each ..... 3.90
Restricted Retail Price, each ..... Net 1.80

"The curve cut strop gives the barber's stroke"

A perfect stropping machine for any and all makes of safety razor blades, complete with fine horsehide strop. All metal parts have handsome nickeled finish. Large loop makes it convenient to hang anywhere. Large finger grip at lower end of strop. Machine takes all heavy-backed blades, such as Star, Gem Junior, etc., in regular holder. Special holders provided in every package for Gillette and other thin or wafer blades. The strop is cut with a double reverse curve so that the blade gets the side stroke that is so essential in bringing it quickly to a fine shaving edge.

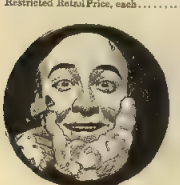


Model No. 2.

**FOR TRAVELERS AND HOLIDAY TRADE**

The regular ZigZag Stropper, with all metal parts heavily nickeled and packed in a handsome seal leather case. An attractive package that appeals to the more discriminating trade. Can be pushed successfully during the holidays and at all times when gifts for men are being selected

No. 407 Per dozen ..... $55.45
Each ..... 5.00
Restricted Retail Price ..... Net 2.00



Trade Mark

## Ever Ready Safety Razor

**Best Value in a Safety Razor.**

New nickel silvered "Ever Ready" safety frame, 12 perfect "Ever Ready" blades, a nickel silvered handle and blade stropper. Put up in neat case. Size 3½x3½x1½ inches

No. 408 Per set, each ..... $2.45
No. 409 Extra "Ever Ready" blades, per dozen ..... 1.45

# Repeating, Calendar and Miscellaneous Imported Watches

Illustrations Show Exact Size.

Quality Guaranteed

**NAMELESS ¼-HOUR REPEATER**

16 size, open face, bassine case, 15 jewel nickel lever movement, Breguet hair spring, pendant set. Strikes hours and quarters

No 3370 Gun metal case ..... $41.85
No 3371 Gold filled, 20-year, plain case.. 78.95
No 3372 14k solid gold, plain case.....155.15

**SELF-ACTING CALENDAR WATCH**

Gives day, date, month, and all changes of the moon. Makes all changes at midnight. Reliable in action and good timekeeper.

No. 3373 16 size, gun metal case, 7 jewel lever movement . . . . $16.85

**ALARM WATCH**

Lever movement, one winding winds both alarm and watch. A date reminder for pocket or desk

No 3374 Gun metal case, 16 size, 7 jewels ..... $16.85
No 3375 Nickel case, 16 size, 7 jewels. 16.85
No 3376 Gun metal case, 16 size, 11 jewels .. 23.95

**ALARM WATCH**

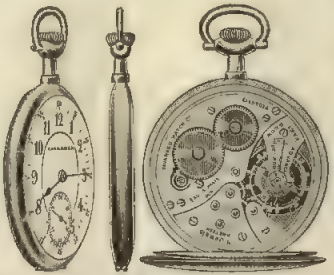
**With radium points on figures and hands, which will show the time distinctly at night**

No. 3377 Gun metal case, 16 size, 7 jewels (radium) ..... $23.95
No 3378 Nickel case, 16 size, 7 jewels (radium) ..... 23.95
No 3379 Gun metal case, 16 size, 11 jewels (radium) ..... 31.00

**12 SIZE CYMA**

No 3380 Nickel case ..... $11.15
No 3381 Gun metal case ..... 11.15
No 3382 Gold filled case ..... 21.60
Guaranteed 20 years.

Open face, very flat, nickel and gun metal cases have snap bezel, jointed backs, gold filled, screw bezel and back, 7 jewel nickel lever movement, pendant set.



**STRICTLY HIGH GRADE—ALL 12 SIZE—OPEN FACE ABSOLUTELY GUARANTEED**

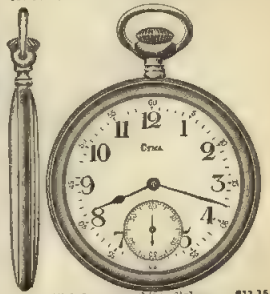
The best moderate priced thin watch for the gentleman ever produced.

It is a new and scientific departure in the construction of a thin model or flat watch, making it possible to be guaranteed with safety; and we can do it as the manufacturer stands back of our guarantee.

It is a marvel in construction. It has long staff and pinions. It has no center wheel. The mainspring barrel is higher and carries a broad, thin spring. Ample space is provided for the Breguet hair spring and double roller.

The only very thin movement wherein the escapement and train possess the same freedom that exists in modern 12 and 16 movements.

No. 3383 7 jewel, in 20-year gold filled plain case ..... $ 29.25
No. 3384 17 jewel, in 20 year gold filled plain case ..... 44.30
No. 3385 17 jewel, in 25-year gold filled plain case ..... 55.85
No. 3386 17 jewel, in 14k gold plain case 132.95
No. 3387 19 jewel, in 25-year gold filled plain case .....



No 3388 Nickel case, white dial . $11.15
No 3389 Gun metal case, white dial . 11.15
No 3390 Gun metal case, gilt dial . 12.25
No 3391 Gold filled case, 20 years, white dial ..... 23.05
No. 3392 Gold filled case, 20 years, gilt dial ..... 24.10

Open face, 14 size, 7 jewel lever Cyma movement, pendant set, guaranteed.

**SOLID GOLD**

Open face, 16 ligne solid gold, plain polished case, solid gold bow, full jewseled nickel cylinder movement fancy dial

No 3393 ..... $20.05

**TAVANNES NURSES' WATCHES**

0 size, open face, plain case, jointed back, snap bezel, guaranteed by a reliable manufacturer. Nickel, 7 jewel lever. Tavannes movement, center second pendant setting

No. 3399 With gold filled case, warranted 20 years $30.15
No. 3400 With sterling silver case (inside cap) ..... 29.60
No 3401 With gun metal case (inside cap) ..... 27.10
15 jewel movements furnished for $5.90 extra.

**GOLD FILLED, GUARANTEED 20 YEARS**

Jewel size, American made case, guaranteed 20 years, reliable 7 jewel lever movement with second hand pendant set

No 3394 Open face, 7 jewels $24.45

**JEWEL SIZE TAVANNES**

Gun metal case, snap bezel and back movements, very thin, fine 7 jewel lever

No 3395 Open face, 7 jewel $23.95
No. 3396 Open face, 15 jewel 29.00

**GUN METAL**

Open face, 11 ligne gun metal, bassine case with inside cap silver trimmed, full jeweled cylinder movement, gold hands, pendant set, with chatelaine pin to match

No. 3397 Fancy dial ..... $11.85
Watch only, without chatelaine pin.
No. 3398 Fancy dial ..... $10.65

# Fine Swiss and American Split and Sweep Second Chronographs and Horse Timers

Illustrations Show the Exact Size. List Prices Each

**JEROME PARK CHRONOGRAPHS WITH 30-MINUTE REGISTER. NEW THIN MODEL.**

Beats 1-5 second, start, stop and fly back from crown. Fine nickel lever movements, 15 jewels.

No 3402 Nickel case ..... $49.65
No 3403 Gun metal case ..... 51.75
No 3404 Sterling silver case and cap.. 62.05

**NATIONAL PARK CHRONOGRAPHS WITH 30-MINUTE REGISTER.**

No 3405 Gold filled case, antique bow 25-year guarantee, plain or engine turned, fine nickel lever movement, 15 jewels ..... 94.15

**C. L. GUINARD'S SPLIT FIFTH-SECOND HORSE-TIMERS WITH 30-MINUTE REGISTER.**

High grade, nickel, 7 jeweled non-magnetic lever movement, compensation balance, running of movement does not stop in operating hands. Thoroughly reliable.

No 3406 In nickel bassine case..... $55.85
No 3407 In gun metal case..... 57.95
No 3408 In gold filled, 20 years warranted bassine case ..... 93.05

Guinard split timers furnished with a higher grade movement (15 jewels). Prices on application.

**NATIONAL PARK HORSE TIMERS WITH 30-MINUTE REGISTER AND FIFTH-SECOND JEWELED LEVER MOVT**

Thin model. Best in the market.

No. 3409 With nickel case..... $19.65
No 3410 With gun metal case 20.75
No 3411 Jockey Club, nickel case 18.60
No. 3412 Jockey Club, gun metal case 19.65

**GUINARD HIGH GRADE TIMER.**

Extra quality, nickel 7 jewel lever movement

No. 3413 With nickel case..... $33.65

**NATIONAL PARK HORSE TIMER WITH 30-MINUTE REGISTER, FIFTH-SECOND.**

Jewel cylinder movement, new thin model, accurate and reliable in action. Starts, stop and fly back from crown.

No 3414 National Park nickel, case ..... $16.65
No 3415 Trotter, gun metal case ..... 17.70
No 3416 Nameless, nickel case ..... 15.05
No 3417 Nameless, gun metal case ..... 15.60

**FOOTBALL TIMER**

Nickel jeweled lever movement, 1-5 second, starts, stops and starts without flying back or will fly back at will.

No 3418 Nickel case .....$23.90

**NEW 16-SIZE CHRONOGRAPH WATCH—NEW ENGLAND. (American Made.)**

16-size. Open face thin model pendant set, 1-5 second start, stop and fly back from the crown, nickel three-quarter plate movement, 7 jewels, quick train, double roller escapment, cut expansion balance, Breguet hairspring, safety barrel.

**WITH FOLLOWING SEMI-BASSINE CASES.**

No 3419 Nickel case, snap back and bezel, plain or engine turned ..... $21.25
No 3420 Silver case, plain or engine turned ..... 27.55
No 3421 Gold filled case, warranted 10 years, plain or engine turned..... 29.25
No 3422 Gold filled case, warranted 20 years, plain or engine turned..... 32.80
No. 3423 Gold filled case, warranted 20 years, engraved in subject designs, auto, sail, or horsehead ..... 32.80
No 3424 Gun metal case, snap and bezel, plain ..... 32.90

**SILVER AND GOLD FILLED CASES HAVE JOINTED BACKS AND SNAP BEZEL.**

**21-JEWEL MOVEMENTS WITH EITHER OF THE ABOVE DESCRIBED CASES FURNISHED FOR $3.50 EXTRA.**

**STANDARD EXCELSIOR CHRONOGRAPHS, FIFTH-SECOND START, STOP AND FLY-BACK FROM CROWN. (American made).**

16-size Open face, 7 jewel nickel movement, interchangeable train bearing in metal settings, fully guaranteed, cases made in screw back and bezel.

No. 3425 Nickel case, plain ..... $18.25
No. 3426 Gold filled case, warranted 10 years, engine turned or engraved..... 25.70
No 3427 Gold filled case, warranted 20 years, engraved in subject design, engine turned or plain ..... 30.65

**11 jewel movements with compensation balance and either of above cases furnished for $3.50 additional.**

# English Cabinet Clocks

**Made by Seth Thomas Clock Co.**

**Prices Each**

**ETON $33.35**

Mahogany with marqueterie inlaid brass feet, eight day, fine round movement, hour and half hour rack strike, cathedral bell, 4-inch convex white porcelain dial, cast sash with convex beveled glass. Height, 10 inches.

**TUDOR $30.00**

Mahogany inlaid brass feet, eight-day, half-hour rack strike on cathedral bell. 4-inch convex white porcelain dial. Cast sash with convex beveled glass. Height 8¾ inches.

**FLORENCE**

Eight-day, fine round movement, hour and half hour rack strike, cathedral bell, 4-inch convex white porcelain dial, cast sash with convex beveled glass. Height, 12¾ inches. Base, 7 inches.

Mahogany, plain ..... $26.70
Mahogany, inlaid ..... 40.35

**YORK—40.00**

Hand carved mahogany case with marquetrie inlaid, brass feet, eight-day fine round movement, hour and half hour rack strike, cathedral bell, 4-inch convex white porcelain dial, cast sash with convex beveled glass. Height 10 inches.

**PROSPECT No. 00.—$12.50**

Polished mahogany, golden oak or flemish oak. Eight-day strike hour on cathedral bell, half hour on cup bell. 5-inch dial, plain sash. Height 10½ inches.

**PROSPECT No. 0.—$13.35**

Polished mahogany or golden oak. Eight-day strike hour on cathedral bell, half hour on cup bell. 5-inch dial, plain sash. Height, 13 inches.

**PROSPECT No. 11—$20.00**

Polished cabinet case, mahogany with marquetrie inlaid. Hour and half hour strike cathedral bell, 5-inch dial. Plain sash. Height, 13¼ inches; base 9 inches.

**PROSPECT No. 10—$15.00**

Polished mahogany, golden or flemish oak. Eight-day strike, hours on cathedral bell, half hours on cup bell. 5-inch dial, plain sash. Height, 13 inches, base 9 inches.

# Fine Cabinet Clocks

Prices Each

**ENFIELD—$10.95**

Golden oak or birch mahogany finish. Gilt feet. Eight-day, strike gong, half-hour on cup bell, 5½-inch American white dial, Arabic figures, plain sash, convex beveled glass. Height, 12 inches, width, 9 inches.

Waterbury

**CABINET No. 2—$41.70**

Mahogany, Marqueterie inlaid. Eight-day, half-hour gong strike round polished movement, 5-inch porcelain dial, cast brass sash, beveled glass. Height, 13½ inches, width, 8¾ inches.

Ansonia

**TENNESSEE—$25.00**

Mahogany inlaid. Eight-day strike gong, half-hour on cup bell, 5½-inch porcelain dial, cast gilt sash and bezel, convex beveled glass. Height, 11¾ inches, width, 8⅝ inches.

Waterbury

**CABINET No. 25—$14.60**

Mahogany, black walnut or oak. Eight-day half hour gong strike, 4½ inch silver dial, cast brass sash, beveled glass. Height, 12¾ inches, width, 11 inches.

Ansonia

**CABINET No. 30—$27.10**

Mahogany, brass feet. Eight-day, half-hour gong strike, round polished movement, 4-inch porcelain dial, cast brass sash beveled glass. Height 8¾ inches, width 16 inches.

Ansonia

**CABINET No. 18—$17.50**

Mahogany, Eight-day half hour gong strike 4 inch porcelain dial, cast brass sash, beveled glass. Height, 10 inches, width 7½ inches.

Ansonia

**MAINE—$16.70**

Fumed chestnut inlaid. Eight-day, strike gong, half hour on cup bell, 5½-inch porcelain dial, cast sash and bezel, convex beveled glass. Height, 12 inches, width, 8½ inches.

Waterbury

**CABINET No. 12—$17.50**

Mahogany. Eight-day, half-hour gong strike, 4 inch porcelain dial, cast brass sash, beveled glass. Height, 14 inches, width, 8 inches.

Ansonia

**PEMBROKE—$21.70**

Mahogany inlaid. Eight-day, half-hour strike gong, 5½ inch porcelain dial, cast gilt sash and bezel, convex beveled glass. Height, 12 inches, width, 8⅛ inches.

Waterbury

# Automobile and Motor Cycle Clocks

Prices Each

**TAMPA—$17.50**

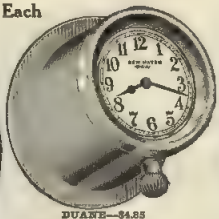
Polished brass or nickel or gun metal finish. (For automobiles.) Eight-day time. Jeweled movement 2¾-inch porcelain or silver dial beveled glass, screw bezel height, 4½ inches width 3½ inches. Practically dust and water tight.

Waterbury

**OCALA—$17.50**

Polished brass or nickel or gun metal finish. (For automobiles.) Eight-day time jeweled movement, 2¾-inch porcelain or silver dial, beveled glass, screw bezel. Measures across the back 3½ inches. Practically dust and water tight.

Waterbury.



**DUANE—$4.85**

Polished brass, nickel or black enamel finish, one-day time, clock is screwed to dashboard, height 3½ inches, width 2⅞ inches, dial 1½ inches heavy brass case with offset boldings, complete watch.

New Haven

**DEVERE—$6.10**

Finish, polished brass, nickel or black enamel; 1-day timepiece; clock is screwed to dashboard; height 3⅛ inches, width 2⅝ inches, dial 1⅜ inches, case, heavy brass, with offset, holding a complete watch

New Haven.

**FIAT-MOTOR CYCLE CLOCK—$6.10**

Polished brass, nickel or black enamel 1-day time, height, 2½ inches; width, 2⅛ inches; 1⅜ inch white dial. Has bracket with device for locking to handle bar of bicycle or motor cycle.

New Haven

No. 40—$45.85

Keyless wind and bezel (rim) set, eight-day. Polished brass, straight (flat) case. For limousine and many places where a noiseless clock of this kind can be used.

High-grade noiseless movement seven jewels bracket has repeating, cut compensation balance wheel, with timing screws and banking screws and finely finished throughout.

Etched metal silvered dials with large seconds circle.

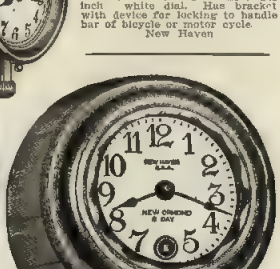
This movement has been built specially to stand the hard usage of automobile and motorboats.

Seth Thomas

**FLORIDA—$12.85**

Polished brass or nickel or gun metal finish. (For automobiles.) Eight-day time, 2¾-inch porcelain or silver dial, beveled glass. Measures across the back 4 inches. Winds, regulates and sets from outside.

Waterbury.




**NEW ORMOND—$13.20**

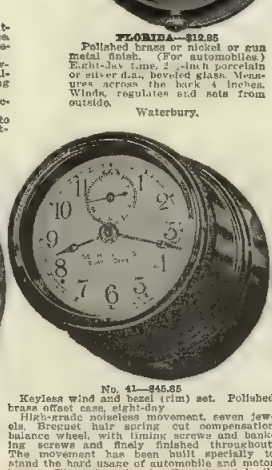
Eight-day with offset dial, 4 inches, dial 3 inches wide designed for motor car and motor boat use, has a heavy polished cast brass offset case and is dust and waterproof. The dial, which is 3 inches in diameter, is of porcelain with black Arabic figures.

New Haven

**AUTOMOBILE—$15.00**

Polished brass, Arabic or Roman silvered dial 8-day time Regulates, sets and winds from outside. No visible screws that hold clock in position. Patented fastening arrangement.

Ansonia

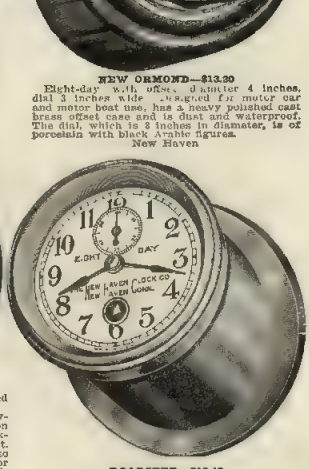


No. 41—$45.85

Keyless wind and bezel (rim) set. Polished brass offset case, eight-day

High-grade noiseless movement, seven jewels. Breguet hair spring cut compensation balance wheel, with timing screws and banking screws and finely finished throughout. The movement has been built specially to stand the hard usage of automobile and motor boats. Three inch bezel. Etched metal silvered dial, with large seconds circle. Clock is wound by turning bezel once a week. Hands are set by pulling bezel forward and turning same fastened to dash from inside of case and locked, no screws visible.

Seth Thomas

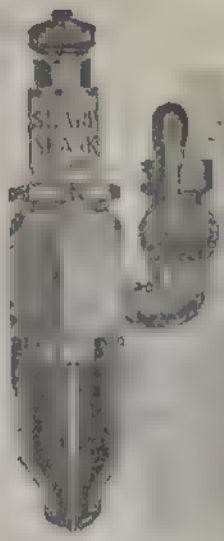



**ROADSTER—$12.40**

Polished brass nickel or black enamel Fine quick beat eight day time with second hand height 3½, base width 3¼ inches, 2¾-inch silver dial accurately constructed to withstand jars. Dust and waterproof.

New Haven

# PRIMING SPARK PLUGS



**SHARP PRIMING**

In the Sharp Primer the Gasoline flows directly to the Sparking Points, where the Spark must reach it. This Plug cleanes itself automatically [illegible] keeping the Firing Points free [illegible] carbon and is [illegible]. The Priming Cup on the Side has a Perfect Shut-off [illegible] Plug equipped with a Tested and Guaranteed Porcelain

| | Each |
|---|---|
| No. SP12 [illegible] U. S. Standard Pipe [illegible] | $2 00 |
| No. SP78 [illegible] A. L. A. M. [illegible] | 2 00 |

One in a Box; Weight 5 ozs.

**CHAMPION PRIMING**

Starts Your Motor on One-quarter Turn Every Time. Open the Needle Valve [illegible] slightly by Hand and prime [illegible] of Gasoline which Leaks Down through Its Own Channel to the Plug Base. Vaporized Fuel Fills Down Past Insulation Prevents Fouling, Will Resist Heat [illegible] Loss of Weather Conditions. This is the Latest and Newest Engine Spark Plug. Its Inducing [illegible] Appearance will Mean Better Trade in the Dealers' Stock.

| | Each |
|---|---|
| No. CP12 [illegible] U. S. Standard Pipe [illegible] | $2 00 |
| No. CP78 [illegible] A. L. A. M. [illegible] | 2 00 |

One in a Box

# SPARK PLUG HOLDERS

This is a Convenient Little Holder for Spark Plugs. When [illegible] they Keep Clean and Free from Damage; **Holds Six Plugs.** Made of Heavy Enameled Duck; Flannel Lined.

| | Per Dozen |
|---|---|
| **No. 1030**—Weight per Dozen 3 [illegible] lbs | $1 40 |

Half Dozen in a Box

# SPARK PLUG GASKETS

**FOR INSIDE OF PLUGS**

Fits Norleigh Diamond, Bull Dog; Rajah and Many Other Makes of Plugs. Made of Copper, Asbestos Lined.

| | Per 100 |
|---|---|
| **No. G1150**—Size 7/16x5/8x1/16 inch; Weight per 100, 2 ozs. [illegible] | $1.00 |

100 in an Envelope

**FOR OUTSIDE OF PLUGS**

Fits all Styles and Makes of Spark Plugs; Made of Copper; Asbestos Lined.

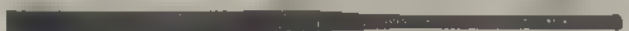
| | Per 100 |
|---|---|
| No. G1137 For Metric Plugs; Size 29/32x63/64 inch; Weight per 100 4 ozs. | $1 30 |
| No. G1138A For A. L. A. M. Plugs, Size 1x1 1/8 inch; Weight per 100 6 ozs. | 1 30 |

100 in an Envelope

# SPARK PLUG FILES

Made of High Grade Carbon Tempered Steel. Made especially for Cleaning and Brightening Contact Points of Spark Plugs, Coils and Vibrators.

| | Per Dozen |
|---|---|
| **No. SP**—Flexible; Narrow Taper, Double Cut File on each Side, Plain Round End Point, Length [illegible] Weight per Dozen 4 ozs. | $2.00 |



| | Per Dozen |
|---|---|
| **No. M**—Flexible, Double Cut File on Both Sides, Plain Square End Point, Round Handle; Length of File 4 inches, Length over all 6 1/2 inches; Weight per Dozen 4 ozs. | $2.00 |

One Dozen in a Box.

SHAPLEIGH
WE
FILL CAREFULLY
ELIMINATE SHORTS
SHIP QUICKLY
PRICE RIGHT
TRY US
MAIL ORDER SERVICE

"DIAMOND EDGE IS A QUALITY PLEDGE"

# SPARK PLUGS

## SPLITDORF COMMON SENSE

This is a Well Known and Extensively Used Plug and is Recognized by the Automobile Trade as a High Class Plug. This Plug Has a Porcelain Protector, which is Lined with Mica to Prevent Leakage.

No. S12—½ inch U. S. Standard Pipe Thread, Weight 3 ozs. One in a Box — Each $1 20

No. S78—⅞ inch A. L. A. M. Thread, Weight 3 ozs. — Each $1 20

No. SM—Metric; Motorcycle Type; Designed Especially for High Speed Engines, Weight 3 ozs. One in a Box; — Each $1 20

### SLOTLESS

This Plug Has a Reputation for High Class Efficiency. It is So Constructed that the High Pressure Due to Compression Tends to Tighten Rather than Loosen it. Being Practically Oil and Soot Proof, it is Especially Adapted for Use In Air Cooled Engines that Use a Large Amount of Lubricating Oil. This is a Combination Mica and Porcelain Plug so Designed as to Prevent the Breaking of the Porcelain and the Leakage of the Mica Type. All Metal Parts Solid Brass.

Each

No. SL12—½ inch U. S. Standard Pipe Thread; Weight 5 ozs. — $1 80

No. SL78—⅞ inch A. L. A. M. Thread, Weight 5 ozs. — 1 80

One in a Box

### CHAMPION X

This is a well known Plug that has been used extensively as Standard Equipment on Ford Cars. Has Petticoat Type Porcelain, Blued Shell and Brass Terminal Nut.

Each

No. X12—½ inch U. S. Standard Pipe Thread — $1 00

No. X78—⅞ inch A. L. A. M. Thread ..... — 1 00

One in a Box; Weight 3 ozs.

### RAJAH

Lynch — A. L. A. M. — Extra Porcelain

Rajah Plugs are Known to Automobile Users The Country Over as Made Without a Compromise. Have Been on the Market for Nine Years as Now Have Been Found Necessary. Have Right Size Cut Threaded Porcelains, They are Easy to Take Apart and Clean. Will Give Excellent Service on any Motor Vehicle. Furnished Complete with Rajah Terminal

Each

No. R12—½ inch U. S. Standard Pipe Thread, Weight 3 ozs. — $1 05

No. R78—⅞ inch, A. L. A. M. Thread; Weight 3 ozs. — 1 05

No. RM—Metric; Weight 3 ozs. — 1.05

One in a Box

### RAJAH PORCELAINS

Each

No. RP—Extra Porcelains, Mounted Ready to Insert in Plugs; Weight 1 oz. — $0 80

Loose

### RED HEAD

Red Head Plugs are well known in the Automobile Industry. They are Standard Equipment on a great many makes of Cars and are extensively advertised. Have Blued Base Brass Nut and Combination Terminal Nut; Porcelain Insulations.

Each

No. RHF12—½ Inch U. S. Standard Pipe Thread, Long Base, especially adapted for Ford Cars — $1.00

No. RH78—⅞ inch A. L. A. M. Thread — 1.00

One in a Box; Weight 3 ozs.

# SIMPLEX PORTABLE CRANES AND HOISTS

Fig 1030

| Number | Height of Crane | | Height of Mast | | Outer Hang | | Width of Bed Outside | | Inside | | Length of Bed | | Height of Bed | | Capacity Tons | Weight Pounds | Price, Each |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Feet | Inches | Feet | Inches | Feet | Inches | Feet | Inches | Feet | Inches | Feet | Inches | Feet | Inches | | | |
| 90 | 5 | 8 | 4 | 3 | 2 | 4 | 2 | 5 | 1 | 9½ | 2 | 11 | .. | 11½ | 1 | 600 | 100 00 |
| 91 | 6 | 11 | 5 | 3 | 2 | 4 | 2 | 8 | 2 | 1½ | 3 | 2 | 1 | .... | 1½ | 665 | 100 00 |
| 91L | 6 | 41 | 5 | 3 | 2 | 4 | 2 | 8 | 2 | 3½ | 3 | 7 | .. | 6¾ | 1½ | 660 | 100 00 |
| 92 | 7 | 10 | 6 | 3 | 2 | 4 | 2 | 10 | 2 | 2½ | 3 | 5 | 1 | .... | 2 | 790 | 150 00 |
| 93 | 7 | 10 | 6 | 3 | 2 | 4 | 3 | 3 | 2 | 4 | 3 | 10 | .. | 6¾ | 2 | 785 | 150 00 |
| 94 | 8 | 4 | 7 | 3 | 2 | 4 | 3 | 2 | 2 | 6 | 3 | 1 | 1 | .... | 2½ | 1000 | 125 00 |
| 95 | 8 | 4 | 7 | 3 | 2 | 4½ | 3 | 8 | 2 | 7 | 3 | 10 | .. | 6¾ | 2 | 1000 | 125 00 |

# HOISTING CRABS OR WINCHES

IRON HOISTING CRAB OR WINCH

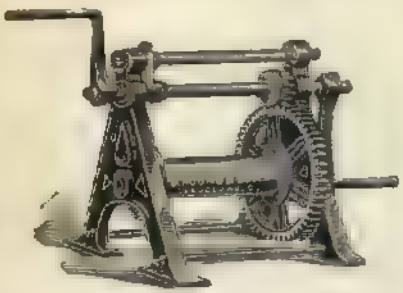


Fig. 1031

INCLINED WINCH

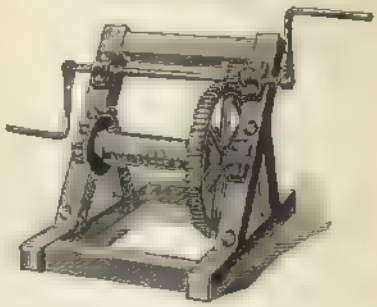


Fig. 1032

## IRON HOISTING CRABS OR WINCHES Single Purchase

| Number | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|
| Capacity | tons | 2 | 3 | 4 | 5 | 6 | 8 | 10 |
| Price, with brake | each | 25 00 | 30 00 | 35 00 | 40 00 | 50 00 | 60 00 | 75 00 |
| " Without brake | " | 20 00 | 25 00 | 30 00 | 35 00 | 45 00 | 55 00 | 65 00 |

## IRON HOISTING CRABS OR WINCHES Double Purchase

| Number | | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|---|---|---|
| Capacity | tons | 4 | 5 | 6 | 9 | 12 | 15 | 18 | 24 |
| Price, with brake | each | 40 00 | 45 00 | 55 00 | 70 00 | 85 00 | 100 00 | 130 00 | 180 00 |
| " Without brake | " | 35 00 | 40 00 | 50 00 | 60 00 | 73 00 | 85 00 | 115 00 | 160 00 |

## INCLINED WINCHES Wood Frame

| Number | | 50 | 51 | 52 | 53 |
|---|---|---|---|---|---|
| Capacity | tons | 2 | 4 | 4 | 8 |
| Price, single geared | each | 40 00 | 50 00 | 70 00 | 90 00 |
| " Double " | " | 50 00 | 60 00 | 80 00 | 100 00 |

Strap hand brakes, extra 6.00; concave drums, extra 5 per cent

PORTABLE DRAY WINCH No. 45

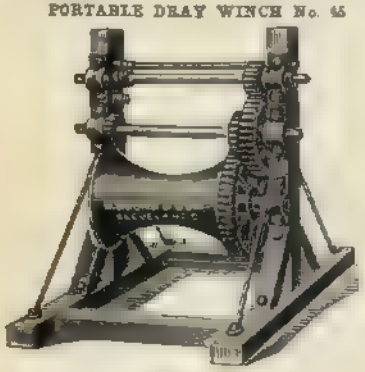


Fig. 1033

STATIONARY DRAY WINCH No. 48

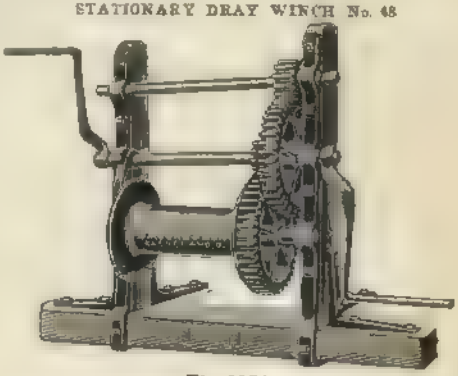
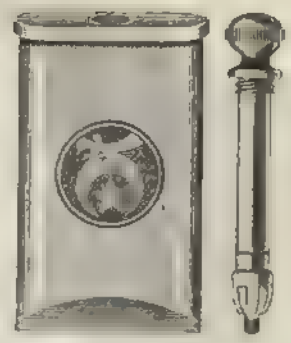


Fig. 1034

| Number | | 45 | 48 |
|---|---|---|---|
| Capacity | tons | 7 | 5 |
| Size of drum | inches | 4½x12 | 6x21 |
| Price | each | 55 00 | 65 00 |

## CIGAR LIGHTERS

No. K280



No. K287

Snap-A-Lite; small and compact, easily carried in vest pocket; heavily nickel plated case; length 2½ inches; operated by snapping back top, which operates lighting mechanism; gives a strong steady flame which combines cigar lighter and pocket lamp.

| | Doz. |
|---|---|
| No. K280—Weight per dozen ½ lb. . . . . | $ 4 00 |

Packed, one dozen in cardboard box.

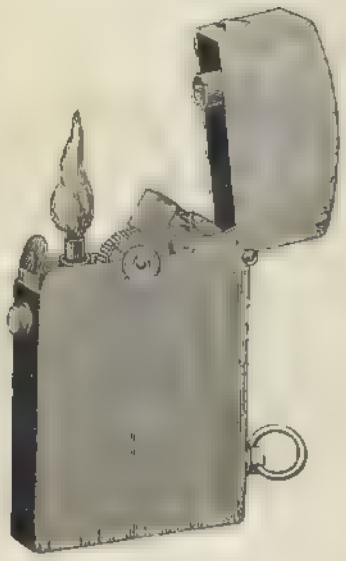
| | Hundred |
|---|---|
| No. K281 Extra sparking metals . . . . . | $ 4 50 |

Wonderlitter; vest pocket size; small and compact; polished and nickel plated; assorted, Shriners', Masons' or Elks' emblems enameled on side of case, scratch steel strikes across sparkling metal on bottom of box and it lights instantly.

| | Doz. |
|---|---|
| No. K287 Weight per dozen 1½ lbs.. | $ 7 00 |

Packed, one dozen in box.

No. K286



No. K284

Kraemer; triple silver plated case, satin finish; length 2⅝ inches, width 1⅝ inches; ⅝-inch thick; assorted Masons', Elks' or Shrine.s' enameled emblems on side of case; strong steady flame which combines a pocket lamp as well as cigar lighter; operated by pushing small button near top of case, which opens the spring top and lights the wick with the one operation; especially handsome finish; very neat in appearance; small and convenient for vest pocket; will last for years with no more care than a fountain pen.

| | Doz. |
|---|---|
| No. K286—Weight per dozen 1⅛ lbs. . . . . | $ 33.00 |
| No. K284—Plain nickel plated brass case; otherwise same as No. K286 . . . . . | 8.40 |

Packed, one in cardboard box; one dozen in carton.

| | Doz. |
|---|---|
| No. K285—Extra sparking metals. . . . . | $ 0.40 |

## KEY AND COIN PURSES

KEY-KOIN

Made of soft pliable leather, assorted tan and black; glove button fastenings; nickel plated ring; aluminum, safety link chain with safety clasp; for keys and money.

| | Doz. |
|---|---|
| No. K761—Size 2½x4¼ inches; weight per dozen 1¼ lbs . . . | $ 4.50 |

Packed, one-half dozen on display card

## KEY CHAINS

| | Doz. |
|---|---|
| No. K1100K -Nickel plated chain; full length 17 inches, with nickel plated loop and ring; weight per dozen ½ lb. . . . . | $ 0.60 |

Packed, one dozen in cardboard box

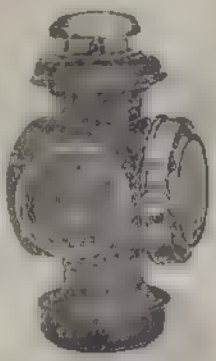
# OIL SIDE LAMPS

**SOLAR**

Here is the Latest and Newest Thing in the Solar Line. Burns for 18 Hours and is Guaranteed Wind and Jar Proof and to Stay Lit Under All Conditions. Has Solar Safety Oil Fount Catch; Has 1½ inch Ruby Jewel on Side; Height over all 8¾ inches; 3½ inch Front Lens.

| | Per Pair |
|---|---|
| No. 504BN—Black and Nickel Finish; Weight per Pair 5 lbs. | $9.00 6.00 |

This is a New Style Side Lamp at a Popular Price; Finely Made and Finished; Will Look Neat and Appropriate on the Most Expensive Cars; Has Sid Jewel; Will Stay Lit Under all Weather Condition Height Over All 9½ inches; 3 inch Front Lens.



| | Per Pair |
|---|---|
| No. 28BN—Black and Nickel Finish; Weight per Pair 5 lbs. | $8 00 |

# ELECTRIC SIDE LAMPS

**VESTA**

This is a High Grade Lamp with Roll Door; Has Heavily Silver Plated Inside Lining and Parabolic Reflector; Diameter 6¼ inches

**Complete with Bulbs**

| | Per Pair |
|---|---|
| No. 236 Black and Nickel Finish; [illegible] Beveled Glass Side | $25 00 15 50 |
| No. 226—Black and Nickel Finish; Without Side Glass | 18 00 |

Weight per Pair 8 lbs.

This is a Very Practical Side or Dash Lamp; Has French Roll Door with Double Hinge Lock; Fitted with Silver Plated Parabolic Reflector and Fixed Focus

Diameter 5⅜ inches; Depth 4¼ inches.

**Complete with Bulbs**

| | |
|---|---|
| No. 308BN—Black and Nickel Finish, Weight per pair 5 lbs. | $15 00 |

# OIL TAIL LAMPS

**SOLAR**

Made Entirely of Heavy Drawn Brass and Riveted Throughout; Body 4½ inches High; Has 3 inch White Semaphore Light to Shine Number; 2¼ inch Ruby Lens and Automatic Reflector Lens; Solar Patent Safety Fount Catch and Standard Combination Plug for Rubber or Wick; Burns 24 Hours; Guaranteed Wind and Jar Proof and to Stay Lit Under All Conditions. Meets Car Laws.

| | Each | |
|---|---|---|
| No. 1205BB—Black and Brass; Weight 2 lbs. | $5 50 | |
| No. 1205BN—Black and Nickel, Weight 2 | 6 00 | |

**SOLAR**

Suitable for Any Style Motor or Cycle Car; Made of Heavy Gauge Metal; Height 8 inches; Has 3 inch Rear Ruby Semaphore and 2¼ inch White Side Glass; Solar Patent Safety Oil Fount and Brass Locks; Combination Proof Reminder Spring Bracket, Guaranteed Wind and Jar Proof and to Stay Lit.

| | Each | |
|---|---|---|
| No. 505BN—Black with Nickel Trimmings, Weight 2½ lbs. | $4 80 | $3 00 |

This is a Beautiful, New Style Tail Lamp Will Prove an Ornament to the Most Expensive Car; Height 9½ inches; Has 3 inch White Semaphore and 2¼ inch Ruby Rear Lens; Patent Clip Oil Fount that is Easy to Remove Yet Will Not Drop Out; Will Stay Lit in the Most Severe Weather.

| | Each |
|---|---|
| No. 24BN—Black with Nickel Trimmings, Weight 2¼ lbs. | $4 00 |

This Lamp We are Putting Out to Meet the Demand for a Low Priced Tail Lamp. One that will Answer the Purpose and at the Same Time be Inexpensive; Height 8 inches; Size Body 4x3 inches, Has Red Rear Lens and White Side Lens.

| | Each |
|---|---|
| No. DBB—Black and Brass, Weight 1½ lbs. | $2 30 |

# ELECTRIC TAIL LAMPS

### VESTA

Has Red Rear Lens and White Side Light; [illegible] Enameled with Nickel Ring.

**Complete with Bulb**

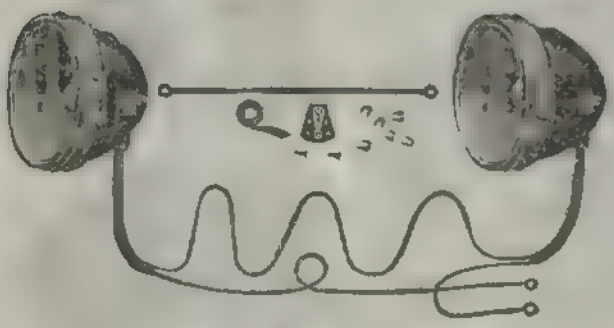
| | Each |
|---|---|
| No. 313BN—Weight 1½ lbs. | $3 90 2.25 |

Has Ruby Semaphore Lens and White Side Light to Show Number; Combination [illegible] Flat Bracket; Diameter Over All 3¾ inches.

**Complete with Bulb**

| | Each |
|---|---|
| No. 32BN—Black Enameled with Nickel Ring; Weight 1 lb. | $3 00 |

# FORD LIGHTING OUTFITS



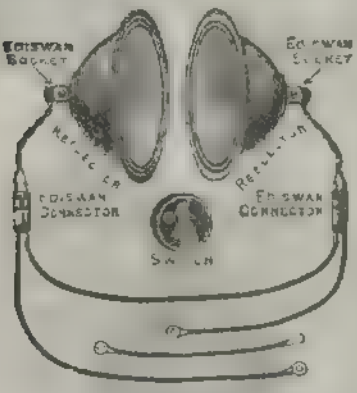
The Vesta Ford Electric Lighting Outfit Consists of a Pair of High Grade Vesta Acorn Type Head Lights, [illegible] with the Necessary Brackets, Wire, Switch, etc., Complete, Ready to Install.

The Lamps in this Outfit Fit Exactly the Standard Ford Brac[illegible], Being Dust Proof, the Reflectors remain Bright and therefore a Brilliant Lig[illegible] Always. A Circular Loom is Furnished with the Wiring to Prevent Chafing or Rubbing.

This is a Splendid Outfit for those who desire to Install an Electric Outfit on their Ford Car.

**Complete With Bulbs**

| | Each |
|---|---|
| No. V. Vesta Ford Lighting Outfits Complete Ready to Install, One Set in a Box; Weight 20 lbs. | $22 00 13.50 |




### HIGH GRADE

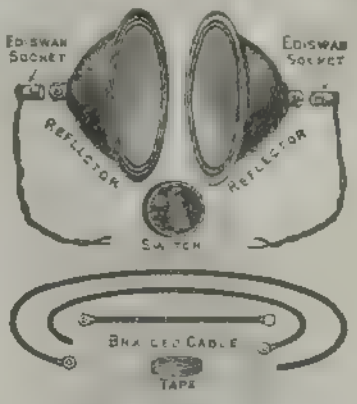
This is a Complete Outfit Wired Up and Ready to Put in a Ford Car to [illegible] Electric Lighted Car. The Magneto Furnishes [illegible] is Unnecessary. The Outht Consists of Two [illegible] with [illegible] Connectors, One Switch, Four Vesta Sockets, and the Necessary Wire and Cable.

**This is a Strictly High Grade Set in Every Particular; Fine Reflectors, Good Wire, and Quick Detachable Edi-Swan Connectors Throughout.**

**Complete with Bulbs**

| | Each |
|---|---|
| No. 8FLO—With 8 inch Reflectors | $6 00 |
| No. 9FLO—With 9 inch Reflectors | 6 00 |

One Set in a Box; Weight 3 lbs.




### BINGO

This Outfit is for those who are Looking for Price. It is a Well Made and Substantial Outfit with Nickel Plated Reflectors and all the Necessary Wire and Switch to Install.

**Without Bulbs**

| | Each |
|---|---|
| No. B8—With 8 inch Reflectors | $3 50 |
| No. B9—With 9 inch Reflectors | 3 50 |

One Set in a Box, Weight 3 lbs.

# LIGHT CONTROLLERS

### REGULITE

**To Be Used in Connection with Ford Electric Lighting Outfits**

The Difficulty Heretofore of Operating Lights from the Ford Magneto Has Been the Burning Out of Lamps at Excessive [illegible] Speeds, Due to the Great Rise in Voltage. Another Trouble Caused by Attaching Electric Headlights to Ford [illegible] was the Failure of Ignition was Brought About, Due to the Fact that Too Much Current was Shunted Away [illegible] the Lamps [illegible] These Difficulties by Feeding to the Lights Enough to Run Them and No More.

| | Each |
|---|---|
| Regulite [illegible] | $5 50 |

One in a Box

# ELECTRIC LAMP REFLECTORS

Perfect Parabola Shaped; Made of Heavy Brass; Silver Plated; Designed to be Fastened to Inside of Lamp Door, but may be Placed in [illegible] Lamp [illegible] Each Reflector Wired and Equipped with Edi-Swan Base Socket and Short Wire with Connector Attached. **Bulbs Not Included.**

| | Each |
|---|---|
| No. 7LR—Diameter Over All 7 in. | $1 70 |
| No. 8LR—Diameter Over All 8 in. | 2 00 |
| No. 9LR—Diameter Over All 9 in. | 2 30 |
| No. 10LR—Diameter Over All 10 in. | 3 00 |

Loose; Weight 1 lb.

# LAMP MIRRORS

### GENUINE FRY GROUND LENSES

**This is an Extra Fine High Grade Mirror**

| | Each |
|---|---|
| No. 5 M—5 inch | $1 65 |
| No. 5½M—5½ inch | 1 80 |
| No. 6 M—6 inch | 2 00 |
| No. 6½M—6½ inch | 2.70 |
| No. 7 M—7 inch | 3 00 |

# MOTORCYCLE LAMPS

## SOLAR GRANDAD

[illegible] Model [illegible] Motorcycles, Especially Made for the Modern Type of Motorcycle Front Fork, 6¼ inches in Depth. Fitted with 6-inch Special Short Focus Lead Glass Lens Mirror Reflector which with Front Aluminum Reflector Provides Two Necessary Fields of Light. Has Nickel Plated Rim and Bezel, Nickel Plated Mirror and Front Reflector and Copper Vertical Fork Brackets 7 inches between Centers. To be Supplied with Glass for Tank.

| | Each |
|---|---|
| †No. 1236 Nickel Plated; Weight [illegible] lbs | $10.50 |

One in a Box

## SOLAR HEADLIGHT

## SOLAR DAD

This Model is a New Design, Is as Large in Size as Necessary, and Completely Equipped Motorcycle Model Front Headlight. The Shell and Parts are Made of One Piece Heavy Gauge Metal, the Front Glass and Aluminum Reflector are Held by a Spring Wire Spring, Front Glass Door, Is Hinged and Can be Opened Lower at their Ratchet Fitted with 5-inch Solar Short Focus Mirror and Lens Assembly Reflectors Produce the Two Necessary Fields of Light. Has 1½-inch Ruby Jewel on each Side, the Right Side having Hinge and Catch for Lighting; ⅜-foot Tip and Props for Horizontal Fork Brackets 4 inches Between Centers.

| | Each |
|---|---|
| †No. 195—Nickel Plated; Weight 3¼ lbs | 7.50 |

One in a Box

## SOLAR SONNY

Solar Designation Model 194 [illegible] Is [illegible] Depth [illegible] Side of Body. Has Lens Mirror Reflector and Front Aluminum Reflector, which Provide the Two Necessary Fields of Light. Model 194 for Flat Brackets which Fit in a Casting Concealed Inside the Back of Body. No. 194P with Props on Either Side at Bottom of Body for Horizontal Fork Brackets, 2½ inch Centers.

| | Each |
|---|---|
| No. 194—Nickel Plated, for Flat Brackets | $6 00 |
| †No. 194P—Nickel Plated; for Fork Brackets | 6.00 |

One in a Box Weight 3 lbs.

## SOLAR GENERATOR

The Combined Generator and Headlight for Motorcycles is a "Big Brother" of the Famous Solar Cycle Lamp. Made Entirely of Brass Full Nickel Plated and Polished, with Removable Silver Finished Reflector. The Reflector is set at an Angle, thus Combining the Head Light Features in a Tail Lamp. Has Two Props for Special Fork Brackets, 2¼ inches Between Centers. The Famous Solar Gas Generator, with an Adjustable Needle Valve gives a Perfect Control of Water Feed. Carbide Capacity 8 ounces and Burns 8 Hours, with ⅝-foot Tip.

| | Each |
|---|---|
| †No. 4GH Nickel Plated [illegible] Weight [illegible] | $11 30 |
| †No. 4GHV Nickel Plated [illegible] Weight [illegible] | 12 00 |

One in a Box

# TAIL LIGHTS

## SOLAR

## GAS

Length 3 inches; Height 3 inches with 2½-inch Rear Ruby Semaphore; Complete with Adjustable Bracket to Fasten on Rear Wheel Mud Guard. Has ⅛-foot Single Jet Tip.

| | Each |
|---|---|
| †No. 102G—Nickel Plated; Complete with Bracket; Weight 1 lb. | $2 30 |

One in a Box

## ELECTRIC

Length 3 inches; Height 3 inches, with 2½-inch Rear Ruby Semaphore; Complete with 1 C. P. 2 Volt Tungsten Bulb; with Adjustable Bracket to Fasten on Rear Wheel Mud Guard.

| | Each |
|---|---|
| †No. 102E—Nickel Plated; Complete with Bracket; Weight about 1 lb. | $3 00 |

One in a Box

Items Marked † Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

# AUTOMOBILE LAMPS

### GAUGE LAMP
**Without Bulb**

Each

No. 51E Nickel Plated Metal Parts, Wired Complete with Ed Swan Socket. But Without Bulb, Weight 8 ozs.... **$1 40**

### SPEEDOMETER LAMP
**Without Bulb**

Each

No. 57E—Nickel Plated Metal Parts Wired Complete with Ed Swan Socket. But Without Bulb, Weight 7 ozs. **$2 00**

### GAUGE LAMP
**Without Bulb**

Each

No. 54E—Nickel Plated Metal Parts, Lenses on Arms Will Not Come Out with Ed Swan Socket. But Without Bulb, Weight 10 ozs. **$1.70**

### DOME LAMP
**Without Bulb**

Nickel Plated Metal Parts; Holophane Glass Globe Wired Complete with Ed Swan Socket. But Without Bulb

Each

No. 6013 3 inch Glass, Weight 10 ozs. **$3.00**

No. 6014—4 inch Glass; Weight 12 ozs. **3.30**

### CANOPY LAMP
**Without Bulb**

Metal Parts Nickel Plated, Wired Complete with Ed Swan Socket. But Without Bulb

Each

No. 50—Weight 10 ozs. **$2.20**

## TROUBLE LAMPS

### POMO

This is the Neatest, Best Looking and most Serviceable Trouble Lamp on the Market. Hangs from your Button Hole, your Hat or Car Dash. Goes inside your Motor or any old place around the Car. Can be carried in the Coat Pocket.

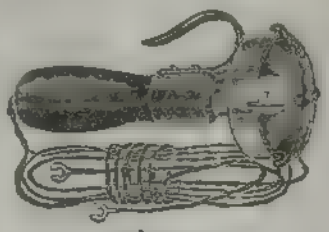
Each

No. PTL—Complete with 6 Volt 4CP Candelabra Base Bulb; 12 Feet of Lamp Cord with Edi-Swan Connector attached; packed in a Green Plush Bag; Weight 8 ozs. **$3.30**

This is a Good Lamp at a Low Price; Wired Ready for Use with Eye Dominal Connection.

**Complete with Candelabra Bulb.** Each

No. 171C—Weight 8 ozs.. **$1.10**



### EVER READY

For Use Around Automobile Garage, etc.; Comes Equipped with 6 Volt Mazda Bulb and 12 Feet of Cord; Clips at End of Cord for Making Quick Connections.

Each

No. ETL—Weight 1 lb. **$2 20**

One in a Box

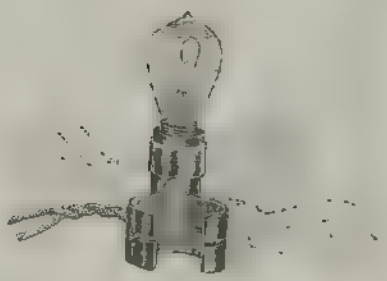
### STICKALITE MAGNETIC

The Stickalite is a Small Lamp with Magnet in End which Causes the Lamp to Stick to Any Metal Part of the Car when the Current is Turned On. Comes Complete with 10 feet of Cord; Edi-Swan Connector, Bulb and Bulb Protector; Fits in any Light or Socket Each

Stickalite—Weight 5 ozs. **$1 60**

## LAMP ATTACHMENTS

For Converting Oil and Gas Lamps into Electric Lamps.
**Price Does Not Include Bulbs**



### FOR OIL LAMPS

Made of Brass; Folds Down and Locks in a Horizontal Position When Use of Oil Lamp is Desired. Fits on Outside of burner Cap; Furnished with Fibre Socket, Wired and Equipped for Standard Candelabra Base Bulbs.

Per Dozen

No. OLA—Weight 1 oz. **$5.80**

Loose

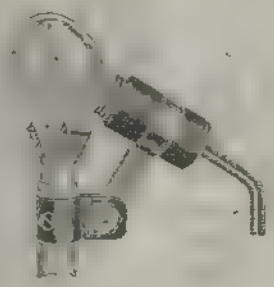
### FOR GAS LAMPS

Made of Brass, Nickel Plated; Fits on Post of Gas Burner with Adjustable Bolt; can be Instantly Shifted in or Out of Position; Furnished with Fibre Socket Wired and Equipped for Standard Candelabra Base Bulbs.

Per Dozen

No. GLA—Weight 1 oz. **$5 80**

Loose



## LAMP COVERS

### FOR HEADLIGHTS

Made of Waterproof Rubber Drill, will Fit all Head Lights and Protect from the Weather. Per Doz.

No. 1LC For Lamps with 6 to 8 inch Glass . **$13 20**

No. 2LC—For Lamps with 8 to 10 inch Glass . **13 20**

No. 3LC—For Lamps with 10 to 12 inch Glass. **13 20**

Two in a Box; Weight per Box 1 lb.

### FOR SIDE AND TAIL LIGHTS

Made of Waterproof Rubber Drill

Per Dozen

No. 4LC For Lamps up to 7 2 Inches High **$8 80**

No. 5LC For Lamps 7 2 to 8 Inches High **8 80**

No. 6LC For Lamps 8 to 10 Inches High **8 80**

Two in a Box, Weight per Box 1 lb.

## LAMP BRACKETS

### ADJUSTABLE

Can be Fitted to all Cars with Overhanging Frame in Front by Bolting On Side; Adjustable to Fit any Width Lamp from 7 3/8 to 8 3/8 inches Between Centers. Made of Drop Forged Steel.

Each

No. 2084A—With 1 1/8 in. Post, Weight 2 1/2 lbs. Loose **$1 35**

### HEADLIGHT

Drop Forged Steel; Arm can be Forged into any Shape or Size Desired or Welded to Other Attachments.

Each

No. 7 1/8—7 1/4 inch Centers; Wt. about 3 lbs. **$1 65**

No. 8 1/8—8 1/4 inch Centers; Wt. about 3 lbs. **1.65**

Loose

### TAIL

Each

No. 11—Solid Cast Brass, Highly Polished; Weight 1/2 lb. **$0 90**

Loose

# SOLID GOLD, STERLING SILVER, PLATINOID AND GOLD FILLED EAR RINGS AND HAT PINS

FOR ADDITIONAL EAR RINGS SEE PRECEDING PAGE AND INDEX—ILLUSTRATIONS ACTUAL SIZE

**No. 3522 Pair $5.00**
Solid Gold
Roman Finish

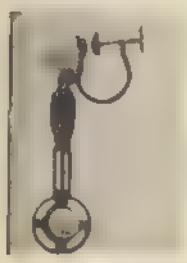
**No. 3523 Pair $9.00**
Solid Gold
Sapphire and
Real and Imitation Pearls

**No. 3524 Pair $7.00**
Solid Gold
White Sapphire
and Pearls

**No. 3525 Pair $5.00**
Solid Gold
Imitation Pearls
Brilliants

**No. 3526 Pair $3.50**
Solid Gold
Imitation Pearls

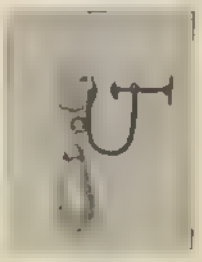
**No. 3527 Pair $3.00**
Solid Gold
Imitation Pearls



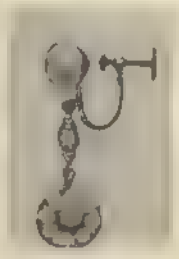
**No. 3528 Pair $2.25**
Solid Gold
Imitation Pearls
and Jet

**No. 3529 Pair $2.00**
Gold Filled
Roman Finish

**No. 3530 Pair $1.00**
Gold Filled
Brilliants
Imitation Pearls



**No. 3531 Pair $1.00**
Gold Filled
Imitation Pearls



**No. 3532 Pair $2.50**
Platinoid
Sapphires, Brilliants
Imitation Pearls

**No. 3533 Pair $1.25**
Sterling Silver
Brilliants
Imitation Pearls

## SOLID GOLD HAT PINS—PRICES EACH

**No. 3534 $4.50**
Solid Gold
Polished Signet
Metal Loop Stem

**No. 3535 $2.00**
Solid Gold
Roman Finish
Metal Loop Stem

**No. 3536 $4.50**
Solid Gold
English Finish

**No. 3537 $5.00**
Solid Gold
Engraved
English Finish
Metal Stem

**No. 3538 $4.00**
Solid Gold
Engraved Top
English Finish

**No. 3539 $4.00**
Solid Gold
Full Engraved
English Finish
Metal Stem

**No. 3540 $2.50**
Solid Gold
English Finish
Metal Stem

**No. 3541 $4.00**
Engraved
English Finish
Metal Stem

**No. 3542 $3.00**
Solid Gold
Engraved Top
English Finish

## GOLD AND GOLD FILLED HAT PINS—PRICES EACH

**No. 3543 $3.00**
Solid Gold
Roman Finish
Metal Stem

**No. 3544 $2.50**
Solid Gold
Roman Finish
Metal Stem

**No. 3545 $2.25**
Solid Gold
Roman Finish
Metal Stem

**No. 3546 $1.75**
Gold Filled
Embossed
Roman Finish

**No. 3547 $1.25**
Gold Filled
Pierced
Stone Set Top

**No. 3548 $1.50**
Gold Filled
Embossed
English Finish

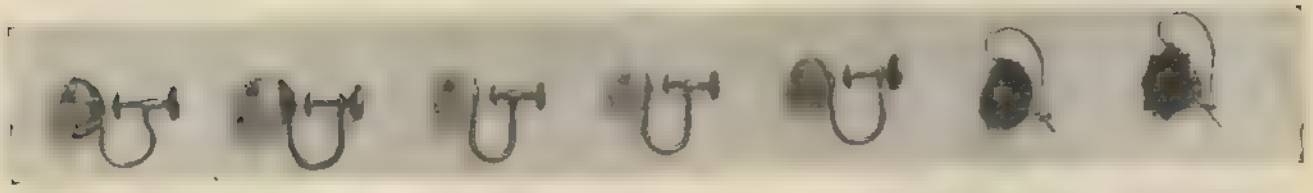
**No. 3549 $1.50**
Gold Filled
Engraved
English Finish

**No. 3550 $1.50**
Gold Filled
Amethyst Center
English Finish

**No. 3551 $1.75**
Gold Filled
Topaz Colored
Stone Top
English Finish

# SOLID GOLD AND GOLD FILLED EARRINGS

ILLUSTRATIONS ACTUAL SIZE—PRICES PER PAIR



No. 3466 $6.00 Solid Gold Imitation Pearls

No. 3467 $4.00 Solid Gold Imitation Pearls

No. 3468 $1.00 Gold Filled Imitation Pearls

No. 3469 $0.75 Gold Filled Imitation Pearls

No. 3470 $5.50 Solid Gold Coral

No. 3471 $1.25 Gold Filled Jet and Imitation Pearls

No. 3472 $0.66 Gold Filled Jet

No. 3473 $1.50 Solid Gold Jet

No. 3474 $1.50 Solid Gold Jet

No. 3475 $0.66 Gold Filled Jet

No. 3476 $0.66 Gold Filled Jet

No. 3477 $1.25 Gold Filled Jet and Imitation Pearls

No. 3478 $3.50 Genuine Onyx Solid Gold

No. 3479 $1.35 Solid Gold Jet

No. 3480 $4.50 Solid Gold Imitation Pearls

No. 3481 $3.50 Solid Gold Imitation Pearls

No. 3482 $4.00 Solid Gold Jet

No. 3483 $3.00 Solid Gold Jet

No. 3484 $2.75 Solid Gold Jet

No. 3485 $1.50 Solid Gold Plain or Faceted

No. 3486 $1.25 Solid Gold Plain or Faceted

No. 3487 $1.00 Solid Gold Plain or Faceted

No. 3488 $0.90 Solid Gold

No. 3489 $0.66 Gold Front Polished Finish

No. 3490 $0.66 Gold Front Polished Finish

No. 3491 $0.66 Gold Front Polished Finish

No. 3492 $0.66 Gold Front Polished Finish

No. 3493 $0.75 Gold Front Polished Finish

No. 3494 $1.00 Gold Front Polished Finish

No. 3495 $1.00 Gold Front Polished Finish

No. 3496 $0.75 Gold Front Polished Finish

No. 3497 $0.75 Gold Front Polished Finish

No. 3498 $0.75 Gold Front Polished Finish

No. 3499 $1.00 Gold Front Polished Finish

No. 3500 $1.00 Gold Front Polished Finish

No. 3501 $3.50 Solid Gold Imitation Pearls

No. 3502 $3.00 Solid Gold Imitation Pearls

No. 3503 $2.50 Solid Gold Imitation Pearls

No. 3504 $1.75 Solid Gold Imitation Pearls

No. 3505 $4.00 Solid Gold Brilliants

No. 3506 $3.00 Solid Gold Brilliants or Rubies

No. 3507 $2.75 Solid Gold Brilliants

No. 3508 $3.00 Solid Gold Brilliants or Rubies

No. 3509 $2.50 Solid Gold Brilliants

No. 3510 $2.25 Solid Gold Brilliants

No. 3511 $2.00 Solid Gold Brilliants

No. 3512 $1.25 Solid Gold Brilliants

No. 3513 $4.50 Solid Gold Genuine Opals

No. 3514 $3.50 Solid Gold Genuine Opals

No. 3515 $5.00 Solid Gold Genuine Opals or Brilliants

No. 3516 $1.50 Solid Gold Turquoise

No. 3517 $1.25 Solid Gold Turquoise

No. 3518 $2.50 Solid Gold Turquoise

No. 3519 $4.50 Solid Gold Rubies

No. 3520 $2.00 Solid Gold Rubies

No. 3521 $3.00 Solid Gold Brilliants

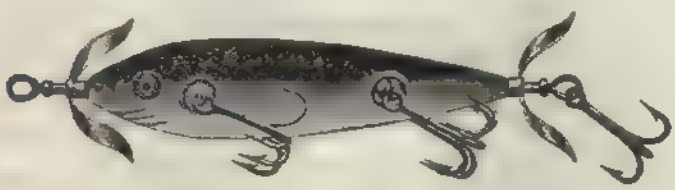
# ARTIFICIAL BAITS

## WOODEN MINNOWS

Nickel plated spinners; three treble hooks; glass eyes.

| | Doz. |
|---|---|
| No. ST501M—Green and white; body 2¾ inches long; weight per dozen 2 lbs. | $ 5 00 |
| No. ST502M—Yellow perch; otherwise same as No. ST501M.. | 5 00 |
| No. ST503M—Spotted or mottled, otherwise same as No. ST501M . | 5 00 |
| No. ST504M—Fancy rainbow; otherwise same as No. ST501M. | 5 00 |
| No. ST505M Red; otherwise same as No. ST501M..... | 5 00 |

Packed, one in box



Nickel plated spinners; five treble hooks, glass eyes.

| | Doz. |
|---|---|
| No. ST601M—Green and white; body 3⅝ inches long; average weight per dozen 3 lbs. | $ 6 00 |
| No. ST602M -Yellow perch; otherwise same as No ST601M.... | 6 00 |
| No. ST603M—Spotted or mottled, otherwise same as No. ST601M | 6 00 |
| No. ST604M—Fancy rainbow; otherwise same as No. ST601M.. | 6 00 |
| No. ST605M Red back white belly; otherwise same as No ST601M .... | 6 00 |

Packed, one in box

## CHARMER MINNOWS

The Charmer minnow is made in two sections; the forward section is stationary, while the rearward section with spiral stripes revolves in the water, blending the colors and creating a beautiful effect; three treble hooks; solid German silver spinners.

| | Doz. |
|---|---|
| No. ST401M—Yellow head; green and yellow striped body, weight per dozen 2½ lbs. | $13.60 |
| No. ST402M—Yellow head; red and yellow striped body; otherwise same as No. ST401M | 13.60 |
| No. ST403M—Green head; green and white striped body, otherwise same as No. ST401M | 13 60 |
| No. ST404M -Red head; red and white striped body, otherwise same as No. ST401M | 13 60 |
| No. ST405M—White head; red and white striped body, otherwise same as No. ST401M | 13 60 |
| No. ST406M—White head; green and white striped body, otherwise same as No. ST401M | 13 60 |
| No. ST407M—Gold head; green and gold striped body; otherwise same as No. ST401M | 13 60 |
| No. ST408M—Gold head; golden and red striped body, otherwise same as No. ST401M | 13 60 |

Packed, one in box.

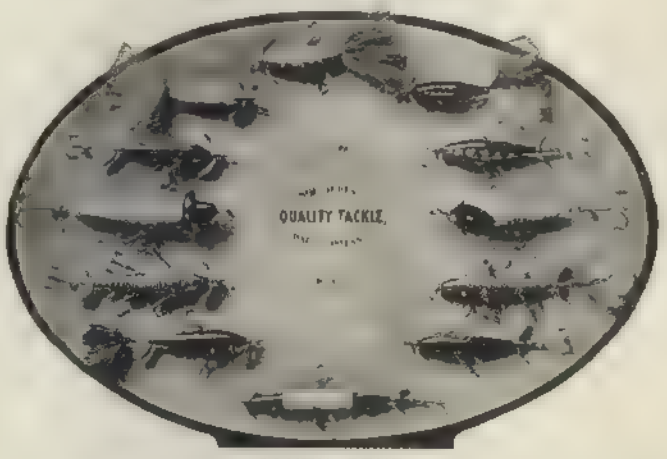
## KENT CHAMPION FLOATER

Made of red cedar; light and buoyant; enameled in grass green with rainbow stripes and dots; white belly.

| | Doz |
|---|---|
| No. ST42—Size 2½x1⅝ inches; two spinners revolving in opposite directions; three detachable treble hooks; weight per dozen 9 oz | $ 8.00 |

Packed, one in box

## MINNOW ASSORTMENTS




SOUTH BEND

| | Asst. |
|---|---|
| No. ST358M—Casting and trolling; consists of one dozen single and double spinner minnows, with from one to five treble hooks; bodies of selected red cedar, specially treated and waterproofed, finished with many coats of enamel beautifully blended in a variety of colors; will not crack or peel, spinners, hooks and mountings heavily nickel plated, weight per assortment 4 lbs. | $ 7.16 |

Packed, one assortment on display easel.

DIXIE

| | Asst |
|---|---|
| No. ST506M—Consists of one dozen single spinner minnows; with three treble hooks; assorted colors; length 2½ inches, well made and will give satisfaction; same quality as No. ST501M; weight per dozen 3 lbs. | $ 2 50 |

Packed, one dozen on attractive display card.

## COAXER SURFACE BAITS

A positively weedless surface bait; white body; red fins and feathers, finest quality steel hook; a very successful clear water lure.

| | Doz. |
|---|---|
| No. ST120B—Coaxer, size 1; weight per dozen 1⅛ lbs. | $ 8.40 |
| No. ST121B—Coaxer, size 2; weight per dozen 1⅛ lbs. | 8 40 |

Packed, one in box.

## LUTZ PORK BAIT

Wiggles like a minnow.

Anglers of experience know full well the value of a life-like lure; know the bait which will most naturally imitate the wiggle and flash of the minnow is the one which will get the fish; will keep indefinitely; packed in bottles.

| | Doz. |
|---|---|
| No. ST10B—Put up in bottle; weight per dozen 9 lbs. | $ 6.00 |

Packed, one dozen in box

## CASTING SUNDRIES

### U. B. WEEDLESS HOOKS

Best quality, hollow point hook; spring steel wire guards, with brass swivel.

| | Doz |
|---|---|
| No. ST212H—Weedless hook; sizes 3/0 and 5/0 sprout and 4/0 and 6/0 Carlisle; weight per dozen 3 oz. | $ 2.50 |

Packed, one on card, one dozen in box.

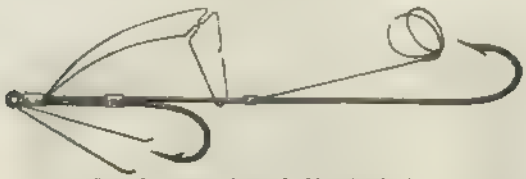
### U. B. WEEDLESS HOOKS

With Weights

Best quality, hollow point hooks; spring steel wire guards; brass swivel.

| | Doz |
|---|---|
| No. ST222H—Sizes 3/0 and 5/0 sprout and 4/0 and 6/0 Carlisle; weight per dozen 5 oz. | $ 3 50 |

Packed, one on card, one dozen in box



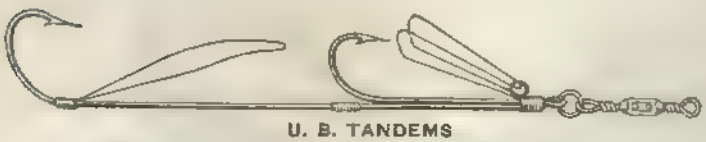
Cut showing about half actual size

### U. B. FROG HARNESS

Best quality music wire; nickel plated; extra quality file point hooks; holds the frog without hooking and keeps it alive.

| | Doz. |
|---|---|
| No ST201H—Sizes 4/0 Sprout style front hook and 6/0 Carlisle rear hook; weight per dozen 6 oz. | $ 6.00 |

Packed, one on card; one dozen in box.



### U. B. TANDEMS

Best quality steel hollow point hooks; fine music wire; looped clamp for holding minnow in position; copper plated to prevent rust.

| | Doz |
|---|---|
| No. ST202T—Sizes 3/0 Sprout style front hook and 4/0 Carlisle rear hook; weight per dozen 6 oz. | $ 6 00 |

Packed, one on card; one dozen in box

### TOOLEY WEEDLESS HOOKS

The long weed guard insures flexibility at the point of the hook, the circular band acts as a fender causing hook to pass over or around obstacles

| | Doz |
|---|---|
| No. ST230H—Sizes 3/0 and 4/0 sneck hooks; weight per dozen 3 oz. | $ 1.30 |
| No. ST231H—Sizes 4/0 and 5/0 sprout hooks; weight per dozen 3 oz. | 1.30 |

Packed, one on card, one dozen in box

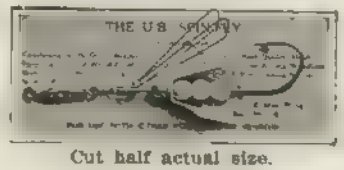
### TOOLEY WEEDLESS HOOKS

With lead weights

The long weed guard insures flexibility at the point of the hook, the circular band acts as a fender causing hook to pass over or around obstacles.

| | Doz |
|---|---|
| No. ST232H—Sizes 3/0 and 4/0 sneck hooks; weight per dozen 5 oz. | $ 1 50 |
| No. ST233H—Sizes 4/0 and 5/0 sprout hooks; weight per dozen 5 oz. | 1 50 |

Packed one on card, one dozen in box



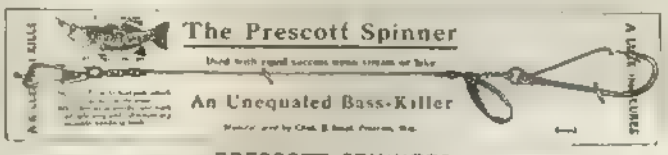

Cut half actual size.

### U. B. SPIN FLIES

Weedless hook; colored celluloid spinner; colored beads.

| | Doz |
|---|---|
| No. ST205H—White, blue or red wing spinners; weight per dozen 5 oz. | $ 4 30 |

Packed, one on card; one dozen in box




### PRESCOTT SPINNERS

For casting, trolling or still fishing; nickel plated steel wire; will not rust or tangle; fish cannot bite it off; brass box swivel; snap to attach sinker when wanted

| | Doz |
|---|---|
| No. ST408H—Hollow point Cincinnati bass hook; nickel plated brass spoons; weight per dozen 6 oz. | $ 4 00 |

Packed, one on card; one dozen in box

# STAR ★ ROGERS (Trade Mark) Fine Silver Plated Flatware STAR ★ ROGERS

## GUARANTEED

We desire to emphasize the (*) in our celebrated Trade Mark

## ★ ROGERS & BRO.

AS AN IMPORTANT DISTINGUISHING FEATURE OF OUR GOODS, WE ARE THE OLDEST MANUFACTURERS OF ROGERS' GOODS, AND THEY ARE KNOWN THE WORLD OVER, WHERE SPOONS, FORKS, KNIVES, ETC., ARE USED.

THEY HAVE BEEN MADE BY US CONTINUOUSLY, AT WATERBURY, CONN., FOR THE PAST SIXTY YEARS, AND OUR REPUTATION ASSURES THE USERS OF THEIR DURABILITY.

WITH ORDINARY CARE THEY WILL LAST A LIFETIME. EVERY ARTICLE STAMPED * ROGERS & BRO. IS ABSOLUTELY GUARANTEED.

XII SECTIONAL AND TRIPLE PLATED ON 18 PER CENT NICKEL SILVER

PRICES PER DOZEN

### VERONA
Bright Finish

| No. | Teaspoons | Doz. |
|---|---|---|
| 12720 | XII Sec. | $5.95 |
| 12721 | Triple ..... | 8.10 |

**Dessert Spoons**

| | | |
|---|---|---|
| 12722 | XII Sec'l | $10.60 |
| 12723 | Triple | 13.70 |

**Table Spoons**

| | | |
|---|---|---|
| 12724 | XII Sec. | $11.85 |
| 12725 | Triple | 16.20 |

**Dessert Forks**

| | | |
|---|---|---|
| 12726 | XII Sec'l | $10.60 |
| 12727 | Triple | 13.70 |

**Medium Forks**

| | | |
|---|---|---|
| 12736 | XII Sec'l | $11.85 |
| 12729 | Triple | 16.20 |

**Soup Spoons**

| | | |
|---|---|---|
| 12730 | XII Sec'l | $11.85 |

**Butter Spreaders**

| | | |
|---|---|---|
| 12731 | XII Sec'l | $10.60 |

**Twist Butters**

| | | |
|---|---|---|
| 12732 | XII Sec'l | $13.10 |

**Sugar Shells**

| | | |
|---|---|---|
| 12733 | XII Sec'l | $11.20 |

**LADLES**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12734 | Cream | $17.20 |
| 12735 | Gravy | 22.40 |
| 12736 | Oyster | 49.00 |
| 12737 | Medium | 60.00 |

**KNIVES**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12738 | Dessert HH | $24.30 |
| 12739 | Med. HH | 26.00 |
| 12740 | Pie | 37.60 |

**SPOONS**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12741 | Coffee | $ 5.85 |
| 12742 | Orange | 7.50 |
| 12743 | Berry | 30.00 |
| 12744 | Berry Gilt | 41.20 |

### CREST
Gray Finish

| No. | Teaspoons | Doz. |
|---|---|---|
| 12745 | XII Sec'l | $5.95 |
| 12746 | Triple ... | 8.10 |

**Dessert Spoons**

| | | |
|---|---|---|
| 12747 | XII Sec'l | $10.60 |
| 12748 | Triple | 13.70 |

**Table Spoons**

| | | |
|---|---|---|
| 12749 | XII Sec'l | $11.85 |
| 12750 | Triple | 16.20 |

**Dessert Forks**

| | | |
|---|---|---|
| 12751 | XII Sec'l | $10.60 |
| 12752 | Triple ... | 13.70 |

**Medium Forks**

| | | |
|---|---|---|
| 12753 | XII Sec'l | $11.85 |
| 12754 | Triple | 16.20 |

**Soup Spoons**

| | | |
|---|---|---|
| 12755 | XII Sec'l | $11.85 |

**Butter Spreaders**

| | | |
|---|---|---|
| 12756 | XII Sec'l | $10.60 |

**Twist Butters**

| | | |
|---|---|---|
| 12757 | XII Sec'l | $13.10 |

**Sugar Shells**

| | | |
|---|---|---|
| 12758 | XII Sec'l | $11.20 |

**LADLES**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12759 | Cream | $17.20 |
| 12760 | Gravy | 22.40 |
| 12761 | Oyster | 49.00 |
| 12762 | Medium | 60.00 |

**KNIVES**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12763 | Dessert HH | $24.30 |
| 12764 | Med. HH | 26.00 |
| 12765 | Pie | 37.60 |

**SPOONS**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12766 | Coffee | $ 5.85 |
| 12767 | Orange | 7.50 |
| 12768 | Berry | 30.00 |
| 12769 | Berry Gilt | 41.20 |

### MYSTIC
Gray Finish

| No. | Teaspoons | Doz. |
|---|---|---|
| 12770 | XII Sec'l | $5.95 |
| 12771 | Triple ..... | 8.10 |

**Dessert Spoons**

| | | |
|---|---|---|
| 12772 | XII Sec'l | $10.60 |
| 12773 | Triple | 13.70 |

**Table Spoons**

| | | |
|---|---|---|
| 12774 | XII Sec'l | $11.85 |
| 12775 | Triple | 16.20 |

**Dessert Forks**

| | | |
|---|---|---|
| 12776 | XII Sec'l | $10.60 |
| 12777 | Triple | 13.70 |

**Medium Forks**

| | | |
|---|---|---|
| 12778 | XII Sec'l | $11.85 |
| 12779 | Triple ... | 16.20 |

**Soup Spoons**

| | | |
|---|---|---|
| 12780 | XII Sec'l | $11.60 |

**Butter Spreaders**

| | | |
|---|---|---|
| 12781 | XII Sec'l | $10.60 |

**Twist Butters**

| | | |
|---|---|---|
| 12782 | XII Sec'l | $13.10 |

**Sugar Shells**

| | | |
|---|---|---|
| 12783 | XII Sec'l | $11.20 |

**LADLES**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12784 | Cream | $17.20 |
| 12785 | Gravy | 22.40 |
| 12786 | Oyster | 49.00 |
| 12787 | Medium | 60.00 |

**KNIVES**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12788 | Dessert HH | $24.30 |
| 12789 | Med. HH | 26.00 |
| 12790 | Pie | 37.60 |

**SPOONS**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12791 | Coffee | $ 5.85 |
| 12792 | Orange | 7.50 |
| 12793 | Berry | 30.00 |
| 12794 | Berry Gilt | 41.20 |

### NEW CENTURY
Bright Finish

| No. | Teaspoons | Doz. |
|---|---|---|
| 12795 | XII Sec'l | $5.95 |
| 12796 | Triple ... | 8.10 |

**Dessert Spoons**

| | | |
|---|---|---|
| 12797 | XII Sec'l | $10.60 |
| 12798 | Triple | 13.70 |

**Table Spoons**

| | | |
|---|---|---|
| 12799 | XII Sec'l | $11.85 |
| 12800 | Triple | 16.20 |

**Dessert Forks**

| | | |
|---|---|---|
| 12801 | XII Sec'l | $10.60 |
| 12302 | Triple | 13.70 |

**Medium Forks**

| | | |
|---|---|---|
| 12803 | XII Sec'l | $11.85 |
| 12804 | Triple | 16.20 |

**Soup Spoons**

| | | |
|---|---|---|
| 12805 | XII Sec'l | $11.85 |

**Butter Spreaders**

| | | |
|---|---|---|
| 12806 | XII Sec'l | $10.60 |

**Twist Butters**

| | | |
|---|---|---|
| 12807 | XII Sec'l | $13.10 |

**Sugar Shells**

| | | |
|---|---|---|
| 12808 | XII Sec'l | $11.20 |

**LADLES**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12809 | Cream | $17.20 |
| 12810 | Gravy | 22.40 |
| 12811 | Oyster | 49.00 |
| 12812 | Medium | 60.00 |

**KNIVES**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12813 | Dessert HH | $24.30 |
| 12814 | Med. HH | 26.00 |
| 12815 | Pie | 37.60 |

**SPOONS**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12816 | Coffee | $ 5.85 |
| 12817 | Orange | 7.50 |
| 12818 | Berry | 30.00 |
| 12819 | Berry Gilt | 41.20 |

### GRECIAN
Bright Finish

| No. | Teaspoons | Doz. |
|---|---|---|
| 12820 | XII Sec'l | $5.95 |
| 12821 | Triple | 8.10 |

**Dessert Spoons**

| | | |
|---|---|---|
| 12822 | XII Sec'l | $10.60 |
| 12823 | Triple ... | 13.70 |

**Table Spoons**

| | | |
|---|---|---|
| 12824 | XII Sec'l | $11.85 |
| 12825 | Triple | 16.20 |

**Dessert Forks**

| | | |
|---|---|---|
| 12826 | XII Sec'l | $10.60 |
| 12827 | Triple | 13.70 |

**Medium Forks**

| | | |
|---|---|---|
| 12828 | XII Sec'l | $11.85 |
| 12829 | Triple | 16.20 |

**Soup Spoons**

| | | |
|---|---|---|
| 12830 | XII Sec'l | $11.85 |

**Butter Spreaders**

| | | |
|---|---|---|
| 12831 | XII Sec'l | $10.60 |

**Twist Butters**

| | | |
|---|---|---|
| 12832 | XII Sec'l | $13.10 |

**Sugar Shells**

| | | |
|---|---|---|
| 12833 | XII Sec'l | $11.20 |

**LADLES**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12834 | Cream | $17.20 |
| 12835 | Gravy | 22.40 |
| 12836 | Oyster | 49.00 |
| 12837 | Medium | 60.00 |

**KNIVES**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12838 | Dessert HH | $24.30 |
| 12839 | Med. HH | 26.00 |
| 12840 | Pie | 37.60 |

**SPOONS**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12841 | Coffee | $ 5.85 |
| 12842 | Orange | 7.50 |
| 12843 | Berry | 30.00 |
| 12844 | Berry Gilt | 41.20 |

### [illegible]
Gray Finish
Burnished Center

| No. | Teaspoons | Doz. |
|---|---|---|
| 12845 | XII Sec'l | $5.95 |
| 12846 | Triple | 8.10 |

**Dessert Spoons**

| | | |
|---|---|---|
| 12847 | XII Sec'l | $10.60 |
| 12848 | Triple | 13.70 |

**Table Spoons**

| | | |
|---|---|---|
| 12849 | XII Sec'l | $11.85 |
| 12850 | Triple | 16.20 |

**Dessert Forks**

| | | |
|---|---|---|
| 12851 | XII Sec'l | $10.60 |
| 12852 | Triple | 13.70 |

**Medium Forks**

| | | |
|---|---|---|
| 12853 | XII Sec'l | $11.85 |
| 12854 | Triple .... | 16.20 |

**Soup Spoons**

| | | |
|---|---|---|
| 12855 | XII Sec'l | $11.85 |

**Butter Spreaders**

| | | |
|---|---|---|
| 12856 | XII Sec'l | $10.60 |

**Twist Butters**

| | | |
|---|---|---|
| 12857 | XII Plate | $13.10 |

**Sugar Shells**

| | | |
|---|---|---|
| 12858 | XII Sec'l | $11.20 |

**LADLES**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12859 | Cream | $17.20 |
| 12860 | Gravy | 22.40 |
| 12861 | Oyster | 49.00 |
| 12862 | Medium | 60.00 |

**KNIVES**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12863 | Dessert HH | $24.30 |
| 12864 | Med. HH | 26.00 |
| 12865 | Pie | 37.60 |

**SPOONS**

**XII Sectional Plate**

| | | |
|---|---|---|
| 12866 | Coffee | $ 5.85 |
| 12867 | Orange | 7.50 |
| 12868 | Berry | 30.00 |
| 12869 | Berry Gilt | 41.20 |

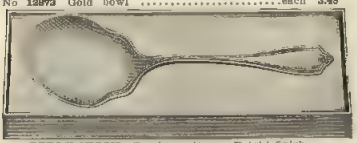
ROGERS & BRO

# Fine Silver Plated Flatware

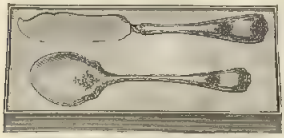
STAR BRAND

**Put up in fancy lined paper boxes**

**BERRY SPOON**—Crest pattern. Gray finish
No. 12872 Silver bowl .....each $2.50
No. 12873 Gold bowl .....each 3.45



**BERRY SPOON**—Grecian pattern Bright finish
No. 12876 Silver bowl .....each $2.50
No. 12877 Gold bowl .....each 3.45



**BUTTER KNIFE AND SUGAR SHELL**
Verona pattern. Bright finish
No. 12880 Silver bowl .....per set $2.30
No. 12881 Gold bowl .....per set 2.70

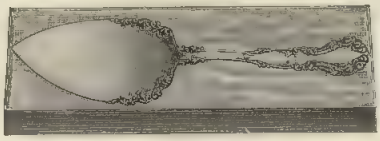
**BUTTER KNIFE**
Florette pattern. Gray finish
No. 12884 Silver blade .....each $1.25
No. 12885 Gold blade .....each 1.70

**SUGAR SHELL**
Florette pattern Gray finish
No. 12886 Silver bowl .....each $1.10
No. 12887 Gold bowl .....each 1.50

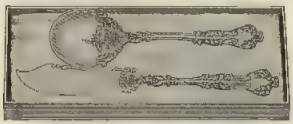
**SIX COFFEE SPOONS**
Verona pattern Bright finish
No. 12890 Silver bowl..per set $2.95
No. 12891 Gold bowl.....per set 4.80

**BERRY SPOON**
Verona pattern Bright finish
No. 12870 Silver bowl .....each $2.50
No. 12871 Gold bowl .....each 3.45

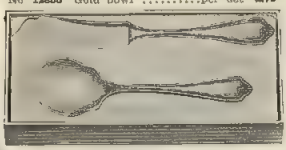
**BERRY SPOON** Florette pattern. Gray finish
No. 12874 Silver bowl .....each $2.50
No. 12875 Gold bowl .....each 3.45



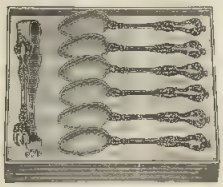
**PIE KNIFE**—New Century pattern Bright finish
No. 12878 Silver blade .....each $3.15
No. 12879 Gold blade .....each 4.05



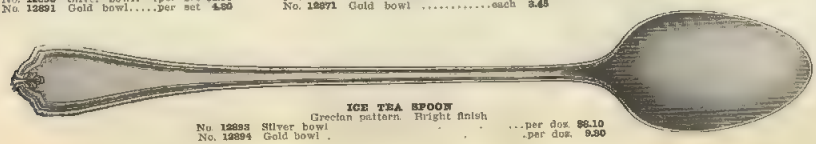
**BUTTER KNIFE AND SUGAR SHELL**
Crest pattern. Gray finish
No. 12882 Silver bowl .....per set $2.30
No. 12883 Gold bowl .....per set 2.70



**BUTTER KNIFE AND SUGAR SHELL**
Grecian pattern. Bright finish
No. 12888 Silver bowl .....per set $2.30
No. 12889 Gold bowl .....per set 2.70



**SIX COFFEE SPOONS AND SUGAR TONGS**
Crest pattern. Gray finish
No. 12892 Silver bowl .per set $5.30



**ICE TEA SPOON**
Grecian pattern. Bright finish
No. 12893 Silver bowl .....per doz. $6.10
No. 12894 Gold bowl .....per doz. 9.30

# STEAM WHISTLES, ETC.

WHISTLE WITHOUT VALVE

Fig. 611

WHISTLE WITH VALVE

Fig. 612

CHIME WHISTLES Without Valve

Fig 613

CHIME WHISTLES With Valve

Fig 614

## WHISTLES WITHOUT VALVE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Diameter of bell, | inches | 1 | 1 | | 2 | 2½ | 3 | 3½ |
| Length of bell | inches | 2½ | 3 | 3¾ | 4 | 4½ | 5 | 5¾ |
| Size of pipe | " | ¼ | ¼ | ⅜ | ½ | ½ | ¾ | 1 |
| Price | each | 2 50 | 2 75 | 3 00 | 4 50 | 5 25 | 7 25 | 9 50 |
| Diameter of bell | inches | 4 | 5 | 6 | 8 | 10 | 12 | |
| Length of bell | inches | 6½ | 8 | 9½ | 11 | 19 | 22 | |
| Size of pipe | " | 1¼ | 1 | 2 | 2½ | 3 | 3 | |
| Price | each | 12 00 | 16 00 | 21 00 | 30 00 | 75 00 | 135 00 | |

## WHISTLES WITH VALVE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Diameter of bell | inches | | 1¼ | 1½ | 2 | 2½ | 3 | 3½ |
| Length of bell | inches | 4½ | 5 | 6¼ | | 8½ | 9 | 9¾ |
| Size of pipe | " | ¼ | ⅜ | ½ | ¾ | ¾ | 1 | 1 |
| Price | each | 5 50 | 6 | 7 50 | 9 | 10 | 13 50 | 17 50 |
| Diameter of bell | inches | 4 | 5 | 6 | 8 | 10 | 12 | |
| Length of bell | inches | 6½ | 8 | 9½ | 11 | 16 | 22 | |
| Size of pipe | " | ½ | 1 | 2 | 2½ | 3 | 3 | |
| Price | each | 15 00 | 20 00 | 33 00 | 50 00 | 225 00 | 425 00 | |

Whistles with longer bell than standard, furnished at a special price

## CHIME WHISTLES

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Diameter of bell | inches | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
| Size of pipe | inches | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 |
| Price, without valve | each | 4 50 | 5 00 | 9 50 | 15 00 | 28 00 | 42 50 | 95 00 | 180 00 | 230 00 |
| " With valve | " | 7 50 | 8 00 | 14 00 | 20 00 | 38 00 | 58 00 | 115 00 | 210 00 | 300 00 |

Fig. 615

## WHISTLE VALVES

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Size | inches | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 |
| Price | each | 2 00 | 2 50 | 3 00 | 3 50 | 5 00 | 8 00 | 9 00 | 15 00 | 27 00 |

# LUNKENHEIMER CHIME WHISTLES

WITHOUT VALVE

Fig. 616

WITH VALVE

Fig. 617

LOCOMOTIVE STYLE UPRIGHT VALVE

Fig. 618

THREE-WHISTLE CHIMES

Fig. 619

## SINGLE BELL CHIME WHISTLES

| Diameter of bell | inches | 1 | 2 | 2½ | 3 | 3½ | 4 |
|---|---|---|---|---|---|---|---|
| Size of pipe | inches | ⅜ | ½ | ¾ | ¾ | 1 | 1¼ |
| Price, brass, without valve | each | $5.50 | 8.50 | 10.50 | 13.50 | 18.50 | 22.00 |
| " Iron base, brass bell, without valve | " | | | | 12.00 | 16.00 | 22.00 |
| " Brass, with valve | " | 7.00 | 10.00 | 13.50 | 16.00 | 22.00 | 28.00 |
| " " locomotive style, with valve | " | | | | | | 27.50 |

| Diameter of bell | inches | 5 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|
| Size of pipe | inches | 1½ | 1½ | 2 | 2½ | 3 |
| Price, brass, without valve | each | 37.00 | 40.00 | 120.00 | 188.00 | 370.00 |
| " Iron base, brass bell, without valve | " | 33.00 | 45.00 | 108.00 | 168.00 | 340.00 |
| " Brass, with valve | " | 44.00 | 60.00 | 145.00 | | |
| " " " balanced valve | " | 67.00 | 85.00 | 170.00 | 235.00 | 430.00 |
| " " locomotive style, with valve | " | 43.00 | 57.00 | | | |

## THREE-WHISTLE CHIMES

| | | |
|---|---|---|
| No. 1 | Size of pipe | inches 1 |
| | Price, one 1½ x 3, 2 x 4, and 2½ x 5 inch whistles, iron branch | 22.00 |
| | " " 1½ x 3, 2 x 4, " 2½ x 5 " " brass " | 27.00 |
| No. 2 | Size of pipe | inches 2 |
| | Price, one 3½ x 8, 4 x 9½, and 5 x 11½ inch whistles, iron branch | 44.00 |
| | " " 3½ x 8, 4 x 9½, " 5 x 11½ " " brass " | 66.00 |
| No. 2½ | Size of pipe | inches 2 |
| | Price, one 3½ x 8½, 4 x 6½, and 5 x 8 inch whistles, iron branch | 50.00 |
| | " " 3½ x 8½, 4 x 6½ " 5 x 8 " " brass " | 80.00 |
| No. 3 | Size of pipe | inches 3 |
| | Price, one 5 x 10, 6 x 12, and 8 x 24 inch whistles, iron branch | 90.00 |
| | " " 5 x 10, 6 x 12, " 8 x 24 " " brass " | 140.00 |
| No. 3½ | Size of pipe | inches 3 |
| | Price, one 5 x 15, 6 x 18 and 8 x 24-inch whistles, iron branch | 130.00 |
| | " " 5 x 15, 6 x 18 " 8 x 24 " " brass " | 190.00 |

No. 2½ whistle chime is very short. No. 3 is very heavy.

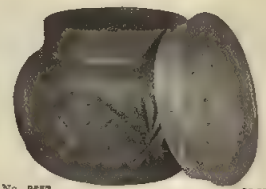
NOTICE—Valves for three whistle chimes are extra. Chimes will be sent complete with valve, unless otherwise ordered.

# Sterling Silver and Silver Plated Mounted Cut and Crystal Glass Jars, etc.

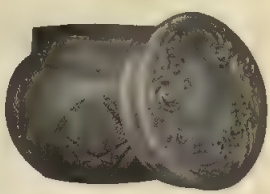
Illustrations are One Half Size.

PRICES EACH

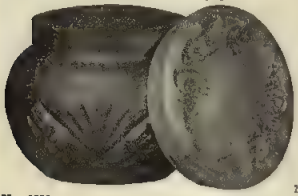
No. 8552 ..... $9.20
Fine cut glass puff jar, sterling silver top, polished, engine turned and engraved, gold lined. Size 3½ x 2⅝ inches.
For other pieces to match, see page 242.



No. 9553 ..... $6.65
Cut glass effect puff jar, sterling silver top, gold lined. French gray finish, raised ornaments, polished edges. Size 4 x 2¾ inches.
For other pieces to match, see page 243



No. 9554 ..... $10.85
Cut glass effect puff jar, sterling silver top, French gray finish. Size 3¼ x 3⅝ inches.



No. 9555 ..... $10.85
Cut glass puff jar, sterling silver, French gray raised ornaments. Size 3 x 3¼ inches.

No. 9556 Vaseline jar ..... $3.60
Cut glass effect jar, sterling silver top, gold lined. French gray finish, raised ornaments, polished edge. Size 1⅝ x 2⅜ inches.
For other pieces to match, see page 244.

No. 9557 Puff jar ..... $7.15
No. 9558 Hair receiver ..... 7.15
French gray finish, raised ornaments, polished edge, gold lined sterling silver top, cut glass effect. Jar size 2¼ x 4¾ inches.
For other pieces to match, see page 244.

No. 9559 Hair Receiver ..... $7.15
No. 9560 Puff Jar ..... 7.15
French gray finish, fancy raised design, polished border, gold lined, sterling silver top, cut glass effect. Jar size, 3¼x4¾ inches.
For other pieces to match, see page 245

No. 9561 Vaseline jar ..... $2.60
French gray finish fancy raised design, polished edge gold lined, sterling silver top cut glass effect. Jar size, 1⅝ x 2¾ inches.
For other pieces to match, see page 245

No. 9562 Puff Jar ..... $12.95
Plain polished heavy weight sterling top, gold lined, cut glass. Jar size 3⅝ x 4 inches.
For other pieces to match, see page 241.

No. 9563 ..... $1.00
Tooth brush jar, sterling silver top. Size, 7 x 1⅛ inches.

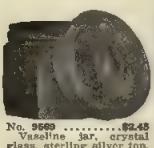
No. 9563 ..... $1.70
Cold cream jar, crystal glass, sterling silver top, engine turned and engraved. Size, 1⅛x1⅝ inches.
For other pieces to match, see page 243.

No. 9564 ..... $2.40
Pomade jar, crystal glass sterling silver top, plain polished. Heavy weight Size, 1½ x 1½ inches.
For other pieces to match, see page 241.

No. 9565 ..... $1.50
Cold cream jar, crystal glass sterling silver top, French gray finish Size, 1⅝x1⅝ inches.
For other pieces to match, see page 242.

No. 9566 ..... $1.15
Cold cream jar, French gray finish, raised ornaments, polished edge, sterling silver top, cut glass effect Jar size, 1½ x 2 inches.
For other pieces to match, see page 244.

No. 9567 ..... $1.15
Cold cream jar, French gray finish, fancy raised design, polished edge, sterling silver top, cut glass effect Jar size, 1½ x 2 inches.
For other pieces to match, see page 245.



No. 9569 ..... $2.45
Vaseline jar, crystal glass, sterling silver top, French gray finish Size, 2 x 2½ inches.

No. 9570 ..... $1.60
Cold cream jar Size, 1½ x 1⅝ inches.

No. 9571 ..... $1.00
Puff jar, crystal glass, silver plated top. Size 2¾ x2⅜ inches.

No. 9572 ..... $2.45
Cold cream jar, crystal glass, sterling silver top, French gray, Size 1⅝x1⅝ inches.

No. 9573 ..... $0.85
Cold cream jar, crystal glass, sterling silver top, French gray Size 1⅛x1⅛ inches.

No. 9574 ..... $1.15
Tooth powder jar, crystal glass, sterling silver top, gilt shaker. Size 4x1⅛ inches.

# STERLING SILVER AND GOLD FILLED HAT PINS

ILLUSTRATIONS ¾ ACTUAL SIZE—PRICES EACH AND PER CARD

No. 3552 6 on a Card $4.50 — Gold Filled Assorted Designs English Finish

3551 3555 3556 3557 3562 3559 3560 3558 3561

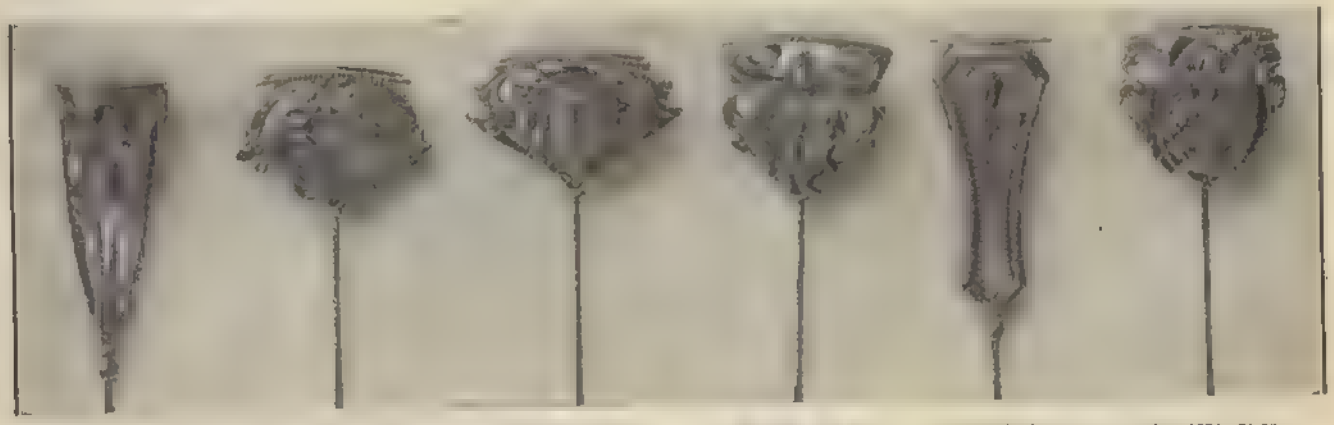
No. 3553 6 on a Card $4.50 — Gold Filled Assorted Finishes and Designs

| | | |
|---|---|---|
| No. 3554 | Gold Filled, Gold Front Top. Each | $1.25 |
| No. 3555 | Gold Filled, Roman Finish. Each | 1.00 |
| No. 3556 | Gold Filled, English Finish. Each | 1.25 |
| No. 3557 | Gold Filled, Solid Gold Signet. Each | 1.00 |
| No. 3558 | Sapphire Top, Gold Filled (Roman Finish). Each | 1.75 |
| No. 3559 | Gold Filled, Top set with Brilliants. Each | 0.66 |
| No. 3560 | Gold Filled, Amethyst and Brilliant Top. Each | 0.66 |
| No. 3561 | Gold Filled, Top Brilliants and Colored Stones. Each | 0.66 |
| No. 3562 | Sterling Silver, Amethyst Top, Engraved. Each | 1.25 |

# GOLD FILLED HAT PINS

ILLUSTRATIONS ACTUAL SIZE—PRICES EACH

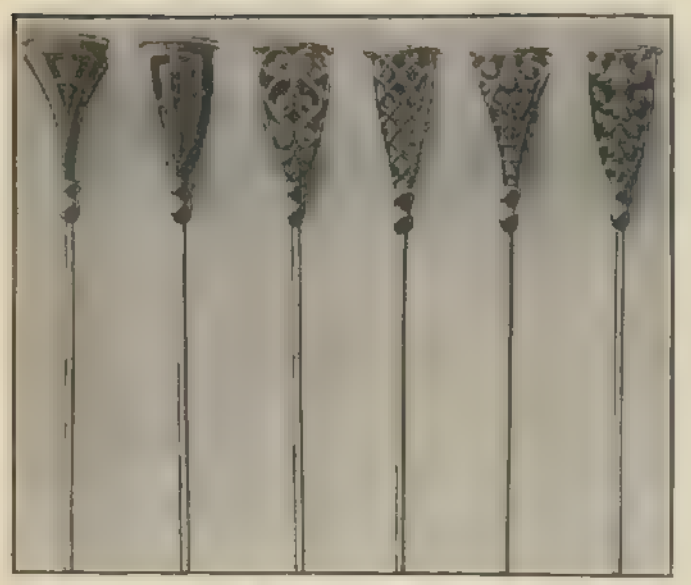
No. 3563 $1.00 English Finish — No. 3564 $1.00 English Finish — No. 3565 $1.00 English Finish — No. 3566 $1.25 English Finish — No. 3567 $0.66 English Finish — No. 3568 $0.66 English Finish



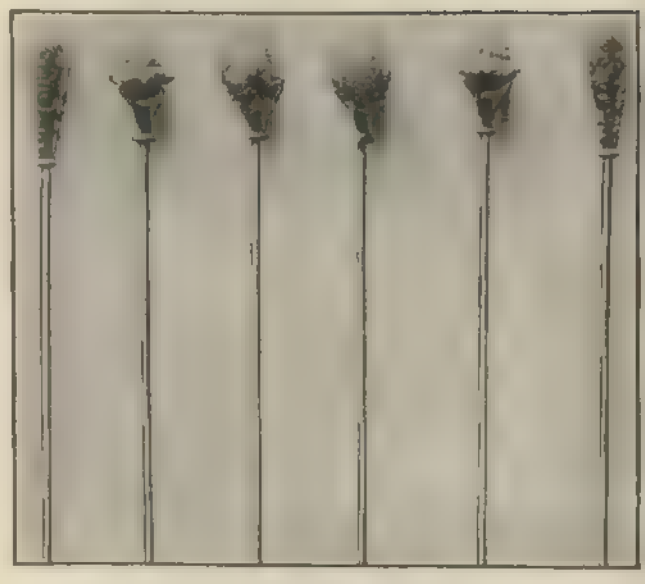
No. 3569 $1.50 English Finish — No. 3570 $1.50 Polished Finish — No. 3571 $1.50 Pearled Finish — No. 3572 $1.50 English Finish — No. 3573 $1.34 Polished Finish — No. 3574 $1.50 English Finish

# GOLD FILLED HAT PINS

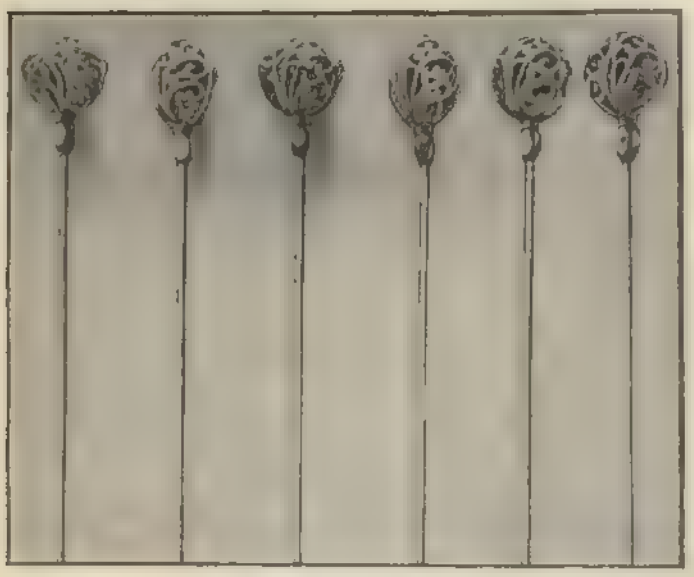
SIX ON A CARD
ILLUSTRATIONS ACTUAL SIZE—PRICE PER CARD



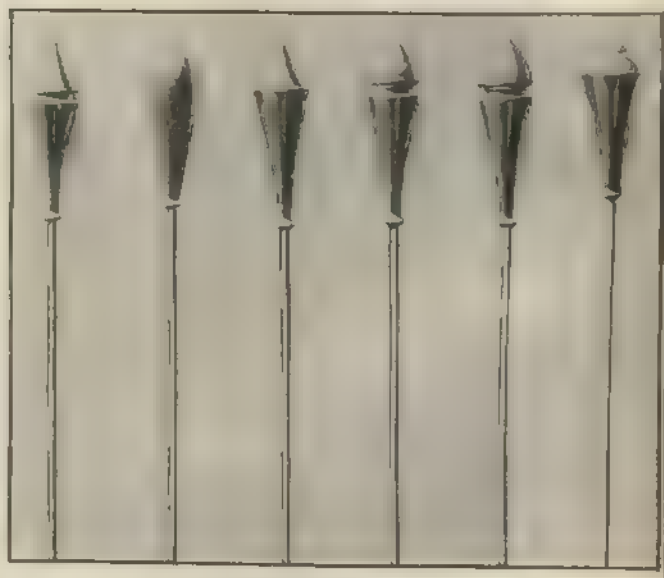
No. 3575 Per Card $4.50
Assorted Designs and Finish
Signet Top 6 on a Card



No. 3576 Per Card $7.50
Assorted Designs English Finish
Engraved 6 on a Card

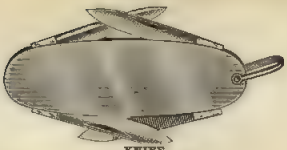


No. 3577 Per Card $4.50
Assorted Designs English Finish
6 on a Card



No. 3578 Per Card $4.50
Assorted Designs Roman and English Finish
6 on a Card

# Fine Solid Gold and Sterling Silver Novelties



**KNIFE**
Solid gold sides, Roman.
No. 9619 Four blades ..... each $12.50

**KNIFE**
Solid gold sides, Roman.
No 9621 Four blades ..... each $8.60
No 9622 Two blades ..... each 7.65

**KNIFE**
Sterling silver handle, raised ornaments, plain satin back.
No. 9624 Four blades ..... each $6.85

**KNIFE**
Sterling silver handle, engraved, polished.
No. 9626 Two blades and scissors ..... each $4.25

**KNIFE**
Solid gold sides, engraved, polished, signet center. Plain polished back
No. 9620 Four blades ..... each $10.90

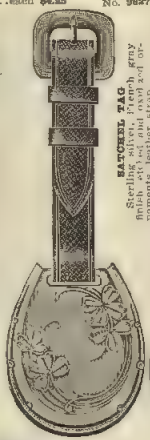
**KNIFE**
Polished sterling silver handle
No. 9623 Four blades ..... each $3.90

**KNIFE**
Sterling silver handle, French gray finish, raised signet center
No 9625 Four blades ..... each $3.85

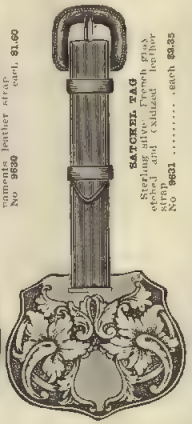
**KNIFE**
Sterling silver handle, French gray finish, patent spring blade opener.
No. 9627 Two blades ..... each $4.95

**SATCHEL TAG**
Sterling silver, French gray finish satin, plain back leather strap.
No 9628 ..... each $2.40

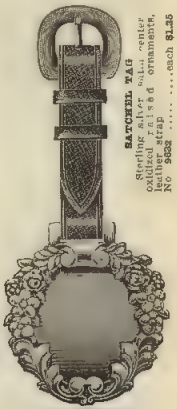
**SATCHEL TAG**
Sterling silver satin, plain back leather strap.
No 9629 ..... each $1.60



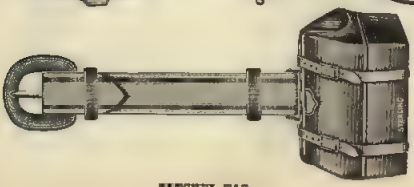
**SATCHEL TAG**
Sterling silver, French gray finish satin and engraved ornaments, leather strap.
No 9630 ..... each $1.60



**SATCHEL TAG**
Sterling silver, French gray finish satin and oxidized ornaments, leather strap.
No 9631 ..... each $3.35



**SATCHEL TAG**
Sterling silver, French gray finish satin center, oxidized satin and engraved ornaments, leather strap.
No 9632 ..... each $1.35



**SATCHEL TAG**
Sterling silver, French gray finish, leather strap
No. 9633 ..... each $1.60

**SATCHEL TAG**
Sterling silver, French gray finish, oxidized, leather strap
No. 9634 ..... each $1.60

# Sterling Silver Match and Stamp Boxes 925/1000 Fine

Illustrations are Exact Size. PRICES EACH.

STAMP BOX
No. 9635 ..... $1.90
French gray

STAMP BOX
No. 9638 ..... $1.85
Etched and oxidized

STAMP BOX
No. 9637 ..... $1.95
French gray, etched

STAMP BOX
No. 9636 ..... $1.85
French gray

STAMP BOX
No. 9639 ..... $1.85
French gray

MATCH BOX
Polished, engine turned, raised ornaments, plain back
No. 9640 ..... $10.00

MATCH BOX
Polished, engine turned, and engraved plain back
No. 9641 ..... $7.85

MATCH BOX
Polished, engine turned, engraved border. Both sides alike.
No. 9642 ..... $6.40

MATCH BOX
French gray finish, raised head, plain back
No. 9643 ..... $5.60

MATCH BOX
Electron or French gray finish, raised ornaments, polished back
No. 9644 ..... $5.50

MATCH BOX
French gray finish raised ornaments, both sides, polished edges.
No. 9645 ..... $4.50

MATCH BOX
French gray finish, raised ornaments, both sides
No. 9646 ..... $4.50

MATCH BOX
French gray finish, raised ornaments both sides.
No. 9647 ..... $4.85

MATCH BOX
French gray finish, raised ornaments, both sides.
No. 9648 ..... $3.90

MATCH BOX
French gray finish, raised ornaments, both sides.
No. 9649 ..... $3.35

MATCH BOX
French gray finish, raised ornaments, both sides.
No. 9650 ..... $2.50

MATCH BOX
French gray finish, raised ornaments, both sides.
No. 9651 ..... $2.40

## SINGLE SHOT RIFLES

### STEVENS

### IDEAL

Half-octagon barrel; walnut stock and forearm; Rocky Mountain front and sporting rear sights.

| | | Each | Each |
|---|---|---|---|
| No. S4422 | 22-caliber; 24-inch barrel, chambered for 22 long rifle rim fire cartridges; weight 7 lbs | $10 00 | $14 28 |
| No. S4425 | —.25 caliber; rim fire; otherwise same as No S4422 | 10.00 | 14.28 |
| No. S442520 | —.25-20-caliber; center fire; otherwise same as No S4422 | 10.00 | 14 28 |

## VISIBLE LOADING REPEATING RIFLES

The Stevens "Visible Loading" Repeating Rifle is very modern in every particular, and embodies many novel and practical features The Visible Loading will appeal instantly to the shooter, for the reason that cartridge is always in sight while being fed into chamber The magazine tube and breech block are in one piece, there are extra strong double extractors making the extraction of the shell absolutely positive; the breech block has a positive lock and is operated by a slide handle after the breech block is closed; the hammer also has a positive lock and is always locked, when the breech block is unlocked.

| | | Each | Each |
|---|---|---|---|
| No. S70S | 22-caliber, 24-inch round barrel, chambered for 22 long rifle cartridges, will take the 22 short, 22 long and 22 long rifle cartridges, but will give better satisfaction if the 22 long rifle cartridge is used, capacity of magazine 15 short, 12 long and 11 long rifle cartridges, walnut stock and forearm; fitted with bead front and sporting rear sights; varnished stock and slide handle; case hardened frame; rubber butt plate; weight 4½ lbs | $9.00 | $11.60 |

Packed, one in cardboard box

## POCKET RIFLES

### STEVENS

| | | Each | Each |
|---|---|---|---|
| No. S40 | —.22-caliber; new model; 10-inch round barrel, with octagon breech, Stevens combination sights; detachable skeleton stock, nickel plated frame and stock; for .22 long rifle rim fire cartridges; will take 22 short, .22 long and 22 long rifle cartridges; weight 2 lbs. | $9.25 | $14.00 |

| | | Each | Each |
|---|---|---|---|
| No. S42 | —.22-caliber; reliable model, 10-inch round barrel with octagon breech; globe and peep sights, with detachable shoulder rest; for .22 long rifle rim fire cartridges; will take 22 short, 22 long and 22 long rifle cartridges, nickel plated frame and rest; weight 1 lb | $8 25 | $11.00 |

# AIR RIFLES

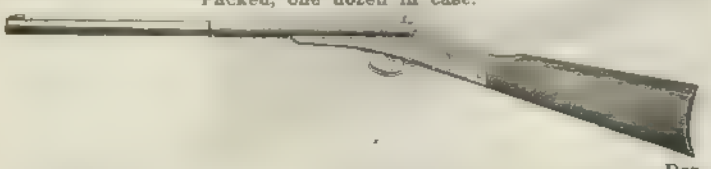
## DAISY

Doz

No. S20D—Little Daisy single shot; made entirely from steel, handsomely nickel plated and fitted with walnut finish stock; entire length 29 inches; weight 18 ounces.....$ 8.00
Packed, one dozen in case.

Doz

No. S12D—Daisy single shot; single piece steel barrel; nickel plated; genuine black walnut stock; shooting barrel removable and shoots either shot or darts; entire length 31½ inches; weight 1¾ lbs..... $13 50
Packed, one dozen in case.

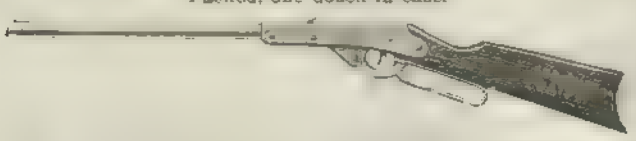


Doz.

No. S2D—Daisy 20th Century single shot; take down; shoots shot or darts; nickel plated barrel, frame and mountings, nicely finished hardwood stock; open front and peep rear sights; entire length 31½ inches; weight 1¾ lbs.....$13 50
Packed, one dozen in case.

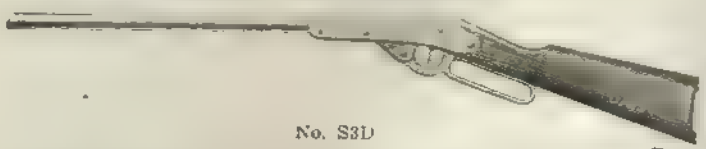
Doz.

No. S1D—Daisy 350-shot; automatic repeater, with break down action; nickel steel barrel with peep sights; beautiful walnut stock; by taking out one screw all parts can be removed for inspection or replacement; entire length 31½ inches; weight 1¾ lbs. $18.00
Packed, one dozen in case.



Doz.

No. S30D—Daisy 500-shot; lever action; loads automatically; nickel plated barrel, frame and mountings; highly polished black walnut stock; plain open sights; entire length 33 inches, weight 2½ lbs.....$24 00
Packed, one-half dozen in case



No. S3D

Doz

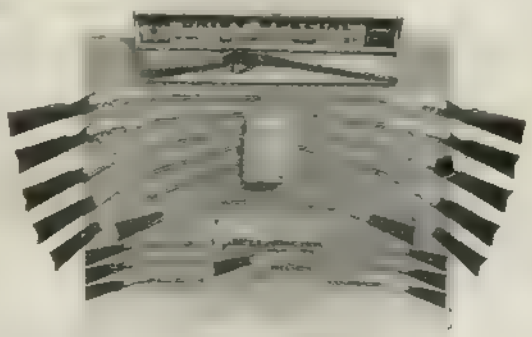
No. S3D—Daisy 1000-shot; lever action; magazine holds 1000 BB air rifle shot and loads automatically; working parts made of steel and brass and so arranged that anyone can take the rifle apart or put it together; nickel plated barrel, frame and mountings; highly polished black walnut stock; plain open sights; shoots accurately and with great force; the most gun-like air rifle on the market; entire length 36 inches; weight 2¾ lbs. .....$27.00
Packed, one half dozen in case.

No. SB3—Daisy special; 1000-shot; lever action; metal parts beautifully polished and blued; carefully selected, hand polished stock; shooting barrel provided with new patented shot retainer; length 36 inches; weight 3 lbs.....$36.00
Packed, one in cardboard box.

Doz.

Doz

No S25D Pump action repeater; metal parts made of non-rusting metal, blued; genuine black walnut stock, polished, adjustable front and rear sights; length 38 inches, fires rapidly from the shoulder, the magazine having a forced feed, weight per dozen 50 lbs . ..$50 00
Packed, one-half dozen in case



ASSORTMENT

Asst

No. S140D—Consists of one No. SB3, two each Nos. S3D, S30D, S1D, S2D, S20D, S14D, six No. S10D, one No. S21 target and 100 cards, one easel display card 24x25 inches; weight 38 lbs. .....$21.74
Packed, one assortment in box

## POP GUNS

Doz.

No. S10D—Little Daisy; all metal parts made of steel, polished and nickel plated; nicely finished walnut stock; shoots a cork and makes a loud noise, but without danger; length 15 inches; weight 7 oz..... $ 4.00
No. S14D—Big Daisy; all metal parts made of steel polished and nickel plated; nicely finished walnut stock; shoots a cork and makes a loud noise but without danger; also shoots a rubber ball for inside target practice at a distance of 25 feet; length 21 inches; weight 1 lb..... 8.00
Packed, one in box; one-half gross in case.

## AIR RIFLE DARTS AND TARGETS

No. S22

DARTS

No. S21

Doz.

No. S22—One dozen air rifle darts; assorted colors, red, white and blue attached to handsomely lithographed display card together with steel claw for removing darts from target; convenient for dealers to display, and increases sale of darts; size 5½x7 inches; weight per dozen 2 oz.....$ 0.30

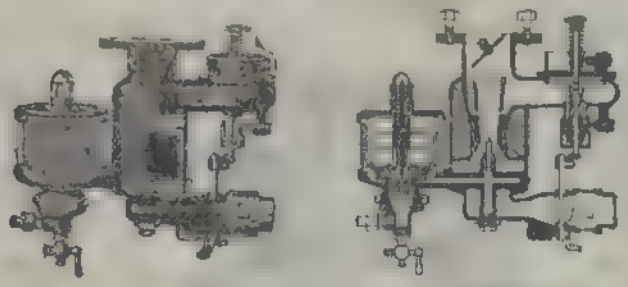
TARGETS

Doz

No S21—Removable paper target to record score; frame made entirely from steel, handsomely nickel plated; gong rings when bull's eye is hit; no glancing shots, as all are held inside the target by novel means; greatly increases interest in shooting; invaluable to dealers to demonstrate in store; each target packed, in box, with 100 record cards; size 6x7 inches; weight per dozen 20 lbs.....$ 8.00
Packed, one dozen in case.

# STROMBERG CARBURETORS

**The Improved 1913 Models Here Shown While Built on the Same General Types as Previously, Embody Many New Features Necessitated by Changed Fuel and Motor Conditions. Skilled Workmanship; The Best Materials, Coupled with Accurate Inspection and Final Motor Test of Every Carburetor Insure Reliability, and Efficiency.**

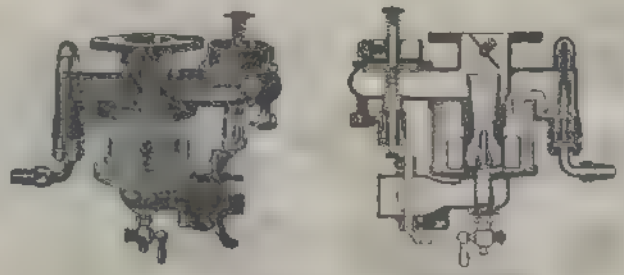


Cross Section

## TYPE "A"

This is the Original Stromberg Carburetor, Adapted for Use on Most Four Cylinder Motors; It is of Water Jacketed Design and Embodies All the Standard Stromberg Features and Improvements, Such as the Simple, Independent High and Low Speed Adjustme[illegible] The Glass Float Chamber; Non-Leakable Metal Float; Indestructible Metal Needle Valve; Hot Air Horn, With Easy Starting Device, and the New Extended Venturi Tube, which Makes Possible Maximum Acceleration Without Sacrificing Economy. It is Easy to Adjust and When Once Properly Adjusted Will Give the Correct mixture at All Speeds.

| | | Each |
|---|---|---|
| No. 1A | [illegible] Inch Iron Pipe S[illegible] | $26 [illegible] |
| No. 2A | [illegible] Inch Iron Pipe Size | 30 00 [illegible] |
| No. 3A | [illegible] Inch Iron Pipe Size | 37 [illegible] |
| No. 4A | [illegible] Inch Iron Pipe Size | 45 00 [illegible] |
| No. 5A | [illegible] Inch Iron Pipe Size | 60 00 [illegible] |
| No. 7A | 2½ Inch Iron Pipe Size | 7[illegible] 00 50 00 |

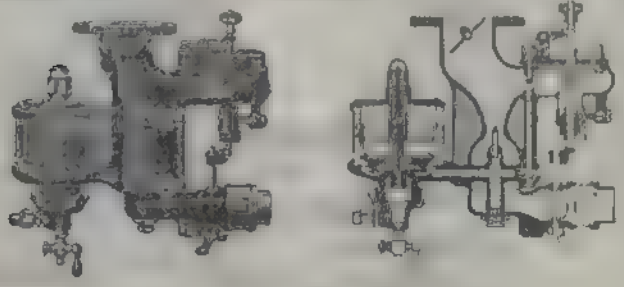


Cross Section

## TYPE "B"

This is the Non-Water Jacket Concentric Type Especially Adapted Where Space is Limited and a Very Compact Carburetor is Necessary. Has All the Stromberg Features as Embodied in the Type A and Produces an Economical Mixture at All Motor Speeds—The Stromberg is Made especially to Meet the Changed Fuel Conditions and Will be Found the Most Reliable and Efficient Carburetor on the Market.

| | | Each |
|---|---|---|
| No. 3B—1 | Inch Iron Pipe Size | $25 50 17 00 |
| No. 4B—1¼ | Inch Iron Pipe Size | 28 50 [illegible] |
| No. 5B—1½ | Inch Iron Pipe Size | 34 50 23 00 |
| No. 6B—1¾ | Inch Iron Pipe Size | 42 00 28 00 |
| No. 7B—2 | Inch Iron Pipe Size | 52 50 35 00 |

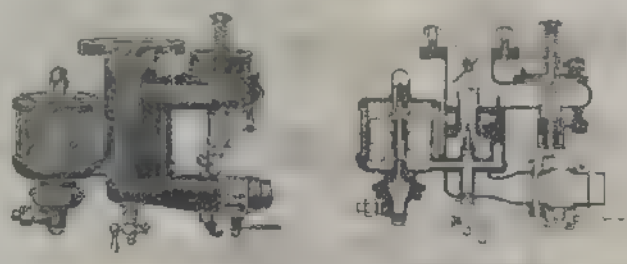


Cross Section

## TYPE "C"

This is a Double Jet Water Jacketed Carburetor, Especially Adapted to Large Four and Six Cylinder Motors. It has All the Standard Stromberg Features such as Simple High and Low Speed Adjustments, the Glass Float Chamber; Non-Leakable Metal Float; Indestructible Metal Needle Valve and Hot Air Horn with Easy Starting Device. In Addition to the Usual Nozzle Located in the Venturi Tube this Type has an Auxiliary Nozzle in the Auxiliary Air Intake, which is Automatically Opened by the Air Valve, and produces the Necessary Rich Mixture for High Speed or Heavy Duty Work.

| | | Each |
|---|---|---|
| No. 2C | [illegible] Inch Iron Pipe Size | $45 00 30 00 |
| No. 3C | [illegible] Inch Iron Pipe Size | 52 50 [illegible] |
| No. 4C | [illegible] Inch Iron Pipe Size | 60 00 [illegible] |
| No. 5C | [illegible] Inch Iron Pipe Size | 75 00 [illegible] |
| No. 7C | 2½ Inch Iron Pipe Size | 90 00 60 00 |



Cross Section

## TYPE "G"

This is a Entirely New Model of Down Draft Non Water Jacketed Design. [illegible] A Down Draft Model with New Automatic Control of Secondary Nozzle, Now Made for All Types, which when used with a Stromberg Steering Post Throttle Control Provides a Positive and Practical Control of the Mixture in the Carburetor from the Drivers Seat: The Supply of Gasoline from the Secondary Nozzle in the Auxiliary Air Passages is Controlled by the Suction of the Motor on this Nozzle and on the Air which is Taken From Around the Outside of the Venturi Tube. When the Suction of the Motor has Increased in excess of the Primary Nozzle Capacity This Secondary Jet Begins to Operate, thus Supplying the Extra Mixture for High Speed and Heavy Duty Work.

| | | Each |
|---|---|---|
| No. 1G—1 | Inch Iron Pipe Size | $25 50 17 00 |
| No. 2G—1¼ | Inch Iron Pipe Size | 28 50 19 00 |
| No. 3G—1½ | Inch Iron Pipe Size | 34 50 23 00 |
| No. 4G—1¾ | Inch Iron Pipe Size | 42 00 28 00 |
| No. 5G—2 | Inch Iron Pipe Size | 52 50 35 00 |

## EXHAUST MANIFOLD EQUIPMENTS FOR ANY TYPE

The Heat necessary to Produce A [illegible] at the Auxiliary Air Valve now Used is Very Effectively Provided by This Attachment with Part of Heat Being Drawn from Around the Exhaust Manifold Through Flexible Metal Tubing into the Bottom Air Intake of the Carburetor. This Attachment Makes Your Motor Run as Smoothly in Winter as in Summer.

### MANIFOLD HOUSINGS

| | | Each |
|---|---|---|
| No. A19—2 | Inch Diameter; Length 5 Inches.... | $1 90 [illegible] |
| No. A20—2½ | Inch Diameter; Length 5 Inches.... | 1 90 [illegible] |
| No. A21—3 | Inch Diameter; Length 5 Inches.... | 1 90 [illegible] |

### FLEXIBLE TUBING

| | | Per Foot |
|---|---|---|
| No. 1 —1 | Inch Diameter..... | $0 85 [illegible] |
| No. 1¼—1¼ | Inch Diameter..... | 90 [illegible] |
| No. 1½—1½ | Inch Diameter..... | 1 90 [illegible] |

All 1 and 1¼ Inch Carburetors Require 1 Inch Tubing.

# COIL, MAGNETO AND TIMER PARTS

NELSON

## COIL PARTS

| | | Each |
|---|---|---|
| No. 1 | —Screw for Splitdorf | $1 00 |
| No. 2 | —Spring for Splitdorf | 55 |
| No. 2½ | —Hammer for Splitdorf | 25 |
| No. 3 | Screw for 1904 Splitdorf | .90 |
| No. 4 | —Spring for 1904 Splitdorf | 1 00 |
| No. 5 | —Screw for Pittsfield. | 90 |
| No. 6 | —Spring for Pittsfield | 90 |
| No. 7 | —Screw for Kingston | 90 |
| No. 7½ | —Screw for Kingston | 90 |
| No. 8 | —Spring for Kingston | 90 |
| No. 8½ | —Spring for Kingston | .90 |
| No. 8¾ | Spring for Kingston | 1 00 |
| No. 9 | —Screw for Connecticut | 90 |
| No. 10 | —Spring for Connecticut | 90 |
| No. 10½ | Spring for Connecticut | 90 |
| No. 11 | Screw for Heinze | 90 |
| No. 12 | —Spring for 1907 Heinze | .90 |
| No. 13 | —Seat for Heinze. | .85 |
| No. 14 | Spring for 1908 Heinze | 90 |
| No. 15 | —Spring for La Coste and Auto Coil. | .90 |
| No. 16 | —Screw for La Coste | 1 00 |
| No. 17 | —Screw for Auto Coil | 1,00 |
| No. 18 | —Spring for Duplex | 1,00 |
| No. 19 | —Screw for Duplex F | .90 |
| No. 19½ | —Screw for Duplex E | .90 |
| No. 20 | —Spring for National | 90 |
| No. 21 | —Spring for National Wizard | 1 00 |
| No. 22 | —Screw for National | .90 |
| No. 23 | Spring for Jacobson-Brandow | 1 00 |
| No. 24 | —Bridge for Jacobson-Brandow | 90 |
| No. 25 | —Lower Spring for New York | 90 |
| No. 26 | —Upper Spring for New York | 1 00 |
| No. 27 | —Spring for Kingston | .90 |

## COIL PARTS

| | | Each |
|---|---|---|
| No. 28 | —Spring for Kingston | 1.00 |
| No. 29 | —Bridge for Kingston | .90 |
| No. 30 | —Spring for Kingston | .90 |
| No. 31 | —Bridge for Kingston | .90 |
| No. 32 | —Seat for Heinze. | .90 |
| No. 33 | Spring for Heinze | 1 00 |
| No. 34 | Bottom Spring for K-W | .90 |
| No. 35 | Top Spring for K-W | 1 00 |
| No. 36 | Screw for Atwater Kent Generator | .90 |
| No. 37 | —Spring for Atwater Kent Generator | .90 |
| No. 38 | Screw for Atwater Kent Unisparker | .90 |
| No. 39 | —Screw for Atwater Kent Unisparker | .90 |
| No. 40 | —Spring for Atwater Kent Horn | .90 |
| No. 41 | —Screw for Atwater Kent Horn | .90 |

## COIL AND MAGNETO POINTS

| | Each |
|---|---|
| No. M—Large Size | $0.90 |
| No. R—Medium Size | .80 |
| No. S—Small Size | .55 |

## MAGNETO PARTS

| | Each |
|---|---|
| No. 50—Screw for Remy | $2 20 |
| No. 51—Spring for Remy | 1 65 |
| No. 52—Screw for Splitdorf | 1 65 |
| No. 53—Bar for Splitdorf | 2 75 |
| No. 54—Timer for Plunger | 15 |
| No. 55—Wrench for Splitdorf | 30 |
| No. 56—Wrench for Bosch. | 25 |
| No. 57—Wrench for Remy | 80 |
| No. 58—Screw for Remy | 1 65 |
| No. 59—Brush Holder for Michigan | 3 30 |
| No. 60—Screw for Michigan | 1 65 |
| No. 61—Contact Lever and Roller for Kingston | 3 30 |
| No. 62—Screw for Kingston | 1.65 |

## MAGNETO PARTS

| | Each |
|---|---|
| No. 63—Carbon Brush for Bosch, Remy or Splitdorf | 25 |
| No. 64—Gauge Brush for Splitdorf | 25 |
| No. 65—Short Screw for Bosch | 1 65 |
| No. 66—Long Screw for Bosch | 1 65 |
| No. 67—Slotted Screw for Bosch | 1 65 |
| No. 68—Screw for Eisemann | 2 20 |
| No. 69—Screw for Eisemann | 2 00 |
| No. 70—Screw for Eisemann | 1 65 |
| No. 71—Screw for Eisemann | 2 00 |
| No. 72—Screw for Eisemann | 2 00 |
| No. 73—Screw for Eisemann | 2 00 |
| No. 74—Screw for Eisemann | 3 30 |
| No. 75—Breaker Bar Points only Furnished for Eisemann | 1.35 |

## FOR MOTOR CYCLE TIMERS

| | Points only Furnished | Each |
|---|---|---|
| No. M 1 | Spring for Thor, Reading-Standard or Indian | $0.90 |
| No. M 2 | Screw for Thor. | .90 |
| No. M 3 | Screw for Reading-Standard | 90 |
| No. M 4 | —Screw for Indian. | .90 |
| No. M 5 | —Spring for Excelsior | .90 |
| No. M 6 | —Screw for Excelsior | .90 |
| No. M 7 | —Spring for Harley-Davidson | .90 |
| No. M8 | Screw for Harley-Davidson | 90 |
| No. M 9 | —Spring for Yale. | 1 00 |
| No. M10 | —Screw for Yale. | .90 |

## FOR MOTOR CYCLE MAGNETOS

| | | Each |
|---|---|---|
| No. M11 | —Long Screw for Bosch | $1.65 |
| No. M12 | —Short Screw for Bosch | 1 65 |
| No. M13 | Slotted screw for Bosch | 1 00 |
| No. M14 | Screw for Hertz | 1 35 |
| No. M15 | —Spring for Hertz | 1 80 |

## STEAK HAMMERS

**MOUNT JOY**

Combines meat pounder and ice hatchet.

Doz.

**No. 80**—Galvanized malleable head, 1¾x1¾ inches; height 3 inches, stained wood handle, 10½ inches long, weight per dozen 6 lbs .. $ 1 50

Packed one dozen in package

**DIAMOND**

Combines meat pounder, ice hatchet, ice pick and bone cutter

Doz.

**No. 160** Heavily tinned, malleable iron; 1¾x1½-inch face with 30 diamond points; length 7 inches; weight per dozen 7 lbs..$ 1 80

Packed, one dozen in box.

## MINCING KNIVES

**SINGLE**

Doz

**No. 20**—Polished, cast steel blade, 6¼x2 inches; polished malleable shank, black enameled handle, 3⅝ inches long; height 5¼ inches; weight per dozen 2¾ lbs.....$ 0.90

Packed, one dozen in box.

**SINGLE**

Doz

**No. 121** Polished steel blade 6x2¾ inches, nickeled, malleable end pieces; varnished, cherry handle, 3¾ inches long; height 5¾ inches; weight per dozen 3½ lbs. .....$ 1.50

Packed, one dozen in box.

**DOUBLE**

Doz.

**No. 15** Polished cast steel blades, 5½x 1⅞ inches; polished malleable shank, varnished hardwood handle, 3⅝ inches long; height 5¼ inches, weight per dozen 3¾ lbs.....$ 1.30

Packed, one dozen in box.

**DOUBLE**

Doz.

**No. 40**—Polished cast steel blades, 6¼x 2 inches; polished malleable shank; black enameled handle, 3¾ inches long; height 5½ inches; weight per dozen 4¼ lbs. .....$ 1 60

Packed, one-half dozen in box.

**DOUBLE**

Doz.

**No. 122** Polished steel blades, 6x2⅛ inches; tinned, malleable end pieces; varnished cherry handle, 3¾ inches long; height 5 inches; weight per dozen 5 lbs.....$ 2 50

Packed, one dozen in box.

## BLOCK SCRAPERS

**BUTCHERS'**

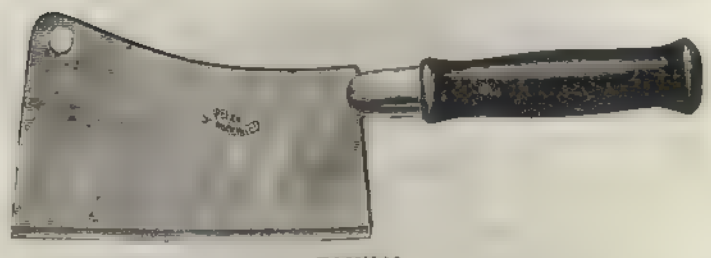
Solid steel blade, oil tempered and polished, securely riveted to malleable iron handle

Doz.

**No. 26**—Blade 2x6 inches; grip 6¾ inches long; entire height 3¼ inches, weight per dozen 19 lbs .....$10 00

Packed, one-half dozen in box.

## CLEAVERS



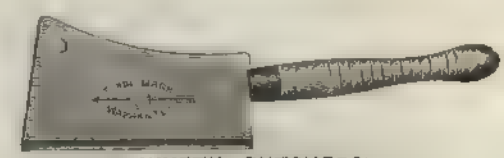
**FAMILY**

Best quality extra heavy, oil tempered crucible steel blade carefully ground and polished; nickel plated, deep, heavy steel ferrule; finely polished, natural hardwood handle riveted to ferrule.

Doz.

**No. 600**- Blade 6¼x3⅞ inches, entire length 11⅝ inches, weight per dozen 10 lbs .. $ 5 00

Packed, one dozen in box.



**WYETH, BUTCHERS'**

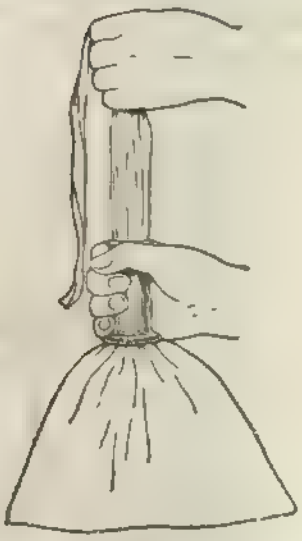
Polished forged steel blade; nickel plated steel cap and ferrule; varnished hickory handle.

| Nos | 0 | 1 | 2 |
|---|---|---|---|
| Cut, inches | 7 | 8 | 9 |
| Entire length, inches | 14½ | 16¼ | 18¼ |
| Weight per dozen, lbs | 24 | 30 | 36 |
| Dozen | $22.00 | 23.50 | 26.00 |

| Nos. | 3 | 4 | 5 | 6 |
|---|---|---|---|---|
| Cut, inches | 10 | 11 | 12 | 13 |
| Entire length, inches | 20½ | 22½ | 24½ | 26½ |
| Weight per dozen, lbs. | 40 | 52 | 64 | 68 |
| Dozen | $29 50 | 33 00 | 36 00 | 39 50 |

Packed, one-half dozen in wood box.

## JELLY BAGS



JUST-THE-THING

Doz.

No. 25 Fruit strainer and jelly bag, will not burn or stain the hands; consists of Tate's hygienic strainer cloth bag 11x17 inches, and a highly polished wood slide weight per dozen 2½ lbs. .....$ 4.00

Packed, one in carton

## SAUSAGE STUFFERS

PERRY

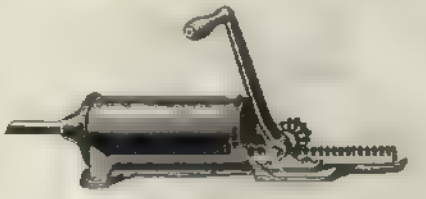
Black japanned cast iron cylinder and lever handle; heavy tin stuffer.

Doz.

No. 1—Family size; diameter cylinder 4 inches; 22-inch handle; weight per dozen 96 lbs. .....$21 50

No. 0—Butchers' size; diameter cylinder 4½ inches; 25 inch handle; weight per dozen 156 lbs. ..... 30 00

Packed, one-half dozen in case.



RAILROAD

Cast iron base and gearings, black japanned; heavy tin cylinder and stuffer attachment; detachable handle with hardwood grip

Doz.

No. RR Cylinder 8 inches long, diameter 3½ inches; base 3¾x12½ inches; height 4¼ inches; weight per dozen 92 lbs....$24.00

Packed, one-half dozen in case.

## FRUIT PRESSES

HENIS

Pressed steel frame, heavily tinned, for pressing fruits and vegetables and mashing potatoes.

Doz

No. 20 Size 3⅛x3¾x3 inches, handles 10 inches long; weight per dozen 9 lbs.....$ 4 00

Loose.

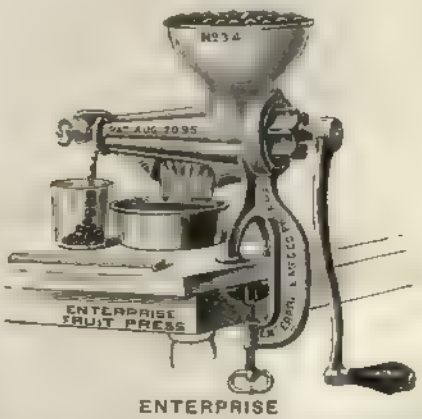
ARCTIC

Tinned steel cylinder, and plunger, japanned malleable iron handles; for fruits and vegetables.

Doz.

No. 2 Perforated cylinder 3⅛x3¼ inches; handles 12 inches long; weight per dozen 18 lbs .....$ 4.00

Packed, three dozen in case.




ENTERPRISE

Combination fruit, wine and jelly press, so constructed that perfect contact between scroll and strainer is maintained, thus preventing clogging, wear on feed screw and cylinder taken up by lock nut; thumb screw at outlet to regulate dryness of pulp.

Doz.

No. 34 Tinned, capacity 1 quart; length 12½ inches; height 13½ inches; weight per dozen 150 lbs.....$74.00

Packed, one-half dozen in case

## LARD AND FRUIT PRESSES

BRIGHTON

For fruit, wine, jelly, tinctures and lard.

Tin cylinder; 3½-inch, black japanned wheel, steel screws and side arms; malleable iron base.

Each

No. 4—Capacity 4 quarts; 7⅝-inch cylinder; entire height 15⅛ inches; weight 21 lbs.....$ 5.50

Packed, four in case

# Fine Imported Novelty, Traveling and Desk Clocks

PRICES EACH

No. 6548 **SWINGING CLOCK ELEGANT—$18.35**

Swinging clock. Height 14 inches; bronze figure, 12 inches. 2-inch dial. Eight-day time. Pendulum swings in two jewels, no pendulum spring. Clock will run in any position

No. 7127 **KOLONNA—$13.50**

Swing Clock, gilt, suspended on jeweled bar. Excellent timekeeper. The clock having no pendulum spring, it is absolutely insensible to atmospheric influence. Wood column and base. Height 12 inches. 2-inch porcelain dial.

**SUEVIA TRAVELING CLOCK WITH ALARM**

Height 2½ inches. Silver plated dial with Arabic figures. The smallest and neatest traveling clock made with alarm. Lever movement, one-day time and alarm.

| | | |
|---|---|---|
| No. 6039 | Nickel case | $6.65 |
| No. 6038 | Silver case | 7.70 |
| No. 6033 | Gun metal case | 7.70 |
| No. 6040 | Gold case | 7.70 |
| No. 6141 | Imitation red Sufan case for Suevia | 1.35 |
| No. 8254 | Genuine black seal case for Suevia | 3.70 |

**TRAVELING CLOCK—$2.00**
No. 894

Height 2¾ inches; width 2¼ inches; 2-inch ivory finished dial. Lever movement, one day time. Imitation black leather case.

**TRAVELING ALARM—$7.00**
No. 121 (Tipp-Topp)

Copper case in deep red Verelfa plating. Absolutely tarnish proof. Ivory finish dial 2 inches. Lever movement, one-day time and alarm. 2½ inches square.

No. 5561 **BLINKING OWL CLOCK—$7.35**

Silver plated case. One-day time. The eyes of the owl move when the clock runs. Height 4 inches.

No. 501
**FRENCH TRAVELING CLOCK—$14.00**

Gold plated case. Height of clock 4½ inches, without handle. Eight-day time, cylinder French movement. Beveled glass on four sides and top. Leather case.

No. 502
**FRENCH TRAVELING CLOCK—$30.85**

Gold plated case. Height of clock 4½ inches, without handle. Eight-day time and one-day alarm, cylinder French movement. Beveled glass on four sides and top. Leather case.

No. 503 **8-DAY ALARM FRENCH TRAVELING CLOCK—$25.85**

Gold plated case. Height of clock 4½ inches, without handle. Eight-day cylinder French movement with eight-day patent alarm alarm to be wound once a week. Beveled glass on four sides and top. Leather case.

No. 504
**FRENCH TRAVELING CLOCK—$41.70**

Gold plated case. Height of clock 4½ inches, without handle. Eight-day lever movement with one-day alarm. Beveled glass on four sides and top. Leather case.

No. 210 **TRAVELING CLOCK—$3.15**

One-day lever time. Genuine leather case. Black green or red. 3 inches high. 2-inch silver dial.

No. 840 **DESK CLOCK—$2.70.**

Nickel plated or copper plated case. Height, 4 inches. 2-inch dial. One-day time.

No. 840½ **DESK CLOCK—$3.20.**

Same clock as above in solid brush brass case.

# Gold Plated, Brass and Leather Cased Novelty Clocks

PRICES EACH

**ZERBA.—$6.10**

French bronze or old brass finish. Height 8¾ inches, width 2⅞ inches. 2-inch porcelain dial. 1-day time.

New Haven

**ROMITA.—$12.10**

French bronze or old brass finish. Height, 4 inches, width 3¾ inches. 2¾-inch porcelain dial. French cut case with beveled bowed glass. 8-day time.

New Haven

**ZIBKEL.—$7.25**

French bronze or old brass finish. Height, 4 inches, width, 3 ¼ inches, 2-inch porcelain dial. 1-day time.

New Haven

**ZINNIA.—$7.25**

French bronze or old brass finish. Height, 6⅝ inches; width 3 inches. 2-inch porcelain dial. 1-day time.

New Haven

**OLIO**

Rich gold finish. 2-inch porcelain dial, Arabic or Roman, beveled glass. Height, 10¼ inches.
1-day time..... $12.10
8-day time..... 12.85

Ansonia

**TULIP**

Rich gold finish. 2-inch porcelain dial, Arabic or Roman, beveled glass. Height, 8⅝ inches.
1-day time..... $11.90
8-day time..... 13.10

Ansonia

**MANDOLIN**

Rich gold finish. 2-inch porcelain dial, Arabic or Roman, beveled glass. Height 8⅝ inches.
1-day time..... $10.05
8-day time..... 12.15

Ansonia

**CHIC**

Rich gold finish. 2-inch porcelain dial, Arabic or Roman, bevel-ed glass. Height, 8¾ inches.
1 day time..... $12.35
8-day time..... 13.50

Ansonia

**LEATHER NOVELTY, No. 4**

Black

Height, 8¼ inches, 2-inch dial, beveled glass.
1-day time..... $3.75

Waterbury

**LEATHER NOVELTY, No. 7**

Black

Height, 3⅝ inches. 2-inch dial, beveled glass.
1-day time..... $4.20

Waterbury

**LEATHER NOVELTY, No. 5**

Red

Height, 3⅝ inches. 2-inch dial beveled glass.
1-day time..... $3.75

Waterbury

**LEATHER NOVELTY, No. 1**

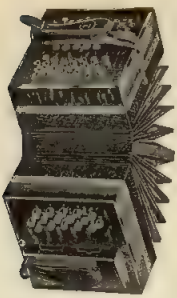
Red

Height, 2⅞ inches, 2-inch dial, beveled glass
1 day time..... $2.50

Waterbury

# German Concertinas

**SQUARE FORM.**



No. 742

| No. | | Each |
|---|---|---|
| 742 | Rosewood veneered case, with German silver edges, 3 rows of German silver keys on each side, double bellows, single reeds, 56 notes, 38 keys, composition bronze reeds, size 7⅛x6½ inches | $49.95 |
| 752 | Rosewood veneered case, with German silver edges, 3 rows German silver keys on each side, double bellows, metal corners, single reeds, 56 notes, 38 keys, steel reeds, size 7⅛x7 inches | |
| 752½ | Rosewood case with German silver edges, double bellows with metal corners, 3 rows of ebonized pearl tipped buttons on each side, 76 notes, 38 keys, 152 yellow metal reeds, octave or double tuning, size 7½x7½ inches | 113.50 |

**Size, 8x7⅛ Inches.**

| | | |
|---|---|---|
| 762 | Rosewood veneered case with German silver edges and ornamented mouldings, cut-off corners inlaid with German silver ornamentation, double leather covered bellows with German silver corners and bellows protectors, 3 rows of pearl keys on each side 76 notes, 38 keys, 152 steel reeds, tuned in octave or double tuning | 152.90 |
| 762 4-4 | Walnut case, with neat design tortoise inlay on 3 sides, surrounded by German silver line, cut corners inlaid with mother of pearl and German silver double lines, reinforced triple bellows with German silver patent corners, 76 notes, 38 pearl top tiger eye buttons, 152 genuine steel reeds, size 7⅝x7⅞ inches | 209.15 |

**Size, 9¼x8¾ Inches.**

| | | |
|---|---|---|
| 782 | Rosewood veneered case, with attractive scroll panel on treble side, ornamented with German silver edges and moulding cut-off corners neatly inlaid with German silver design, 3 rows of pearl keys on each side, triple leather covered bellows, with German silver corners and bellows protectors, 76 notes, 38 pearl keys, 302 patent steel reeds, 3 sets reeds in treble (unison and octave tuning) Bass has 2 sets of reeds tuned in octaves and 3 sets of reeds in contra-bass | 228.30 |

**Size, 9¼x8¾ Inches.**

| | | |
|---|---|---|
| 792 | Rosewood veneered case, with attractive scroll panel on treble side, German silver edges and mouldings, cut-off corners neatly inlaid with German silver design, fine leather covered triple bellows, with German silver corners and bellows protectors, 94 notes, 47 pearl keys, 3 rows in treble, 4 rows in bass, 244 patent steel reeds, treble has 3 sets of reeds, bass 2 sets and contra bass 3 sets of reeds | 263.20 |
| 802 | 102 notes, 51 pearl keys, 3 rows on treble side, 4 rows on bass side, 254 patent steel reeds, otherwise same description as No. 792 | 286.65 |

No. 702

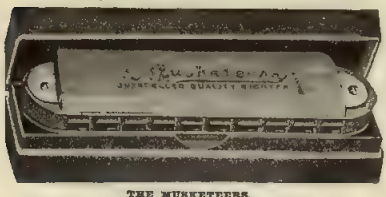
# Harmonicas

**THE CHICAGO CUBS.**

No. 6812 10 single holes, 20 superior quality reeds, brass plates, substantial nickel covers, assorted keys. Per dozen ..... $2.50

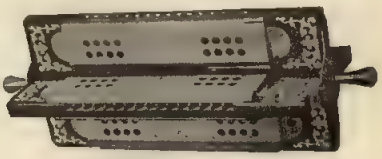
**WIENER CONCERT.**

No. 5282 16 double holes on each side, 64 reeds, nickel covers, tremolo tuning. Per dozen ..... $5.45



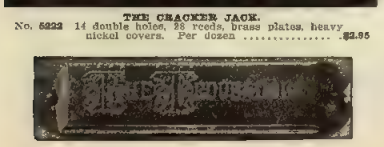
**THE MUSKETEERS.**

No. 5332 10 double holes, 40 superior quality reeds, brass plates, heavy nickel covers, powerful tone, easy blowing, assorted keys. Per dozen ..... $4.85



**FOUR-IN-ONE TREMOLO CONCERT.**

No. 5322 16 double holes on each side, 128 reeds, brass plates, nickel covers, in four keys, length, 8¼ inches. Per dozen ..... $17.50



**THE CRACKER JACK.**

No. 5222 14 double holes, 28 reeds, brass plates, heavy nickel covers. Per dozen ..... $2.95



No. 282 10 single holes, white nickel reed plates, assorted keys. Per dozen ..... $1.20

**WIENER CONCERT.**

No. 5282 20 double holes, 40 reeds, brass reed plates, nickel covers, tremolo tuning. Per dozen ..... $4.60

# Violins

**All of our Violins are guaranteed to be exactly as represented and will give the best of satisfaction.**

**Prices Quoted Do Not Include Bows.**

## GERMAN.

| No. | | Each |
|---|---|---|
| 122 | German, maple back and sides, spruce top, amber color, pearl flower, inlaid tailpiece. | $4.80 |
| 132 | Fine shaded back good model and finish. | 5.25 |
| 142 | Red color, shaded, good model and finish, inlaid edges | 6.00 |
| 162 | German, flamed maple back, spruce top, amber color, slightly shaded | 6.25 |
| 702 | Reddish brown color, shaded, highly polished, ebony fingerboard and tailpiece | 6.70 |
| 742 | Brown and amber color, shaded, highly polished, ebony fingerboard and tailpiece | 7.75 |
| 292 | Salzard model, dark red color, flat model pegs, pearl shield in tailpiece, inlaid edges. | 7.10 |
| 412 | Kohler model, handsome red color, shaded, highly polished | 8.75 |
| 3902 | Amber color, shaded, good model and finish, ebony fingerboard, etc. | 9.90 |
| 3922 | Light red color, shaded, highly polished, ebony fingerboard, etc. | 12.50 |
| 4002 | Reddish brown color, shaded, flat model, ebony pegs, polished ebony fingerboard, ebony tailpiece | 14.00 |
| 3942 | Light brown amber color, shaded, highly polished, full ebony trimmed. | 14.80 |
| 3962 | Dark brown color, highly polished, deep edges, fine model, full ebony trimmed | 14.85 |
| 3972 | Light brown, slightly shaded, highly polished, full ebony trimmed, modern flat model pegs. | 16.70 |
| 2002 | Dark amber color, high finish, ebony fingerboard and tailpiece | 18.75 |
| 4152 | Red brown varnish, slightly shaded, nicely flamed back, sides and neck, full ebony trimmed. | 25.00 |
| 4182 | Jacobus Stainer model, chestnut brown varnish, not shaded, flamed maple back, sides and neck, fine spruce top, highly polished rosewood pegs and end pin, polished ebony tailpiece with bone saddle | 35.45 |
| 3122 | Gasper Da Salo model, full medium red color, high polish finish, grand model, double row purfling, scrolls on back, full ebony trimmed | 38.55 |
| 4612 | Bergonzi model, golden red brown translucent varnish, highly flamed nicely matched maple back and sides, fine grain spruce top, French flat model, dull finish pegs, ebony fingerboard and tailpiece | 41.65 |
| 8102 | Bergonzi model, close imitation of genuine Italian, rich golden orange varnish, very translucent, slight shading, highly polished, beautifully flamed back and sides French model ebony tailpiece and dull finish pegs, ebony fingerboard | 45.85 |
| 9122 | Sanctus Seraphino model, reddish brown varnish, finely flamed maple, one piece back, sides and neck to match, fine grained mountain spruce top, highly polished, flat model, dull finish, rosewood pegs, ebony tail-piece with gilt lyre ornament, ebony fingerboard, rosewood end pin, gilt tipped | 50.00 |
| 9062 | Francois Guillmont, Amati model, dark orange color varnish highly polished, ebony tailpiece and pegs, with gilt ornaments | 62.50 |

| No. | | Each |
|---|---|---|
| 20302 | Stradivarius model, dark brown amber oil varnished dull finish, two piece back two pieces of beautifully flamed, well seasoned maple, with ribs to match, all trimmings are ebony | $40.00 |
| 20522 | Stradivarius model, dark amber, oil varnish, highly finished, light edges, richly flamed two-piece old maple back, ribs to match, neat scroll, fine grained spruce top trimmings, ebony throughout, smooth tone | 50.00 |
| 20512 | Stradivarius model, medium reddish amber varnish highly polished, back of old flamed maple, top of even grained old mountain spruce, full flamed neck, highly polished fingerboard carved tailpiece | 62.50 |
| 20562 | Stradivarius model, oil varnished of medium amber shade, old garret seasoned, highly flamed, old stock maple back and ribs, carved tailpiece. The tone possesses sweetness, strength and far-carrying qualities, in fact, is much superior to the average violin of this price | 68.75 |
| 20582 | Guarnerius model, reddish amber, oil varnished, beautifully figured old burl maple back in one piece, clean cut scroll, old Hungarian spruce top, neatly carved tailpiece and pegs, fingerboard highly polished, pleasing tone quality of considerable volume, all trimmings of Madagascar ebony | 100.00 |
| 20602 | Stradivarius model, dark red amber, oil varnished, high polish finish, back and sides of prominently flamed maple, top of close grained spruce selected from very old stock; handsomely carved tailpiece, trimmings throughout of fine Madagascar ebony The tone quality embodies sweetness, clearness, strength | 133.35 |

| No. | | Each |
|---|---|---|
| 3082 | Mittenwald, dark brown color, fine model and finish, ebony fingerboard and tailpiece | $10.25 |
| 9022 | Viotti model, dark brown color, fine model and finish, ebony fingerboard, etc. | 10.85 |
| 4222 | Red color, good model and finish, ebony fingerboard and tailpiece | 12.25 |
| 4232 | Brown shaded, fine model ebony fingerboard and tailpiece | 17.10 |
| 6222 | Stradivarius model, medium red color, shaded, highly polished, ebony fingerboard and tailpiece | 20.00 |
| 2422 | Mittenwald, medium brown color, fine model and tone, ebony fingerboard and tailpiece | 22.95 |
| 2532 | Amati model brown amber color, highly polished full ebony trimmed | 31.25 |
| 3012 | Johann Ferd Pfretzschner, high amber varnish finish, flamed back and sides, full ebony trimmed | 37.50 |
| 3022 | Johann Ferd Pfretzschner, Amati model high amber varnish finish, flamed back and sides, ebony trimmed, rosewood pegs | 50.00 |

## THREE-QUARTER SIZE.

| | | |
|---|---|---|
| 722¾ | German, amber color, French flat model, ebony pegs, fingerboard and tailpiece | $ 7.50 |
| 212¾ | Light brown color shaded, good model and finish ebony fingerboard and tailpiece | 9.40 |

## HALF SIZE.

| No. | | Each |
|---|---|---|
| 122½ | German, amber color, maple back and sides, spruce top | $ 4.80 |
| 722½ | German, amber color, French flat model ebony pegs, ebony fingerboard and tailpiece | 7.50 |
| 212½ | Light brown color, shaded, good model and finish ebony fingerboard and tailpiece | 9.15 |
| 302½ | Mittenwald, dark brown color, good model and finish | 9.90 |
| 802½ | Mittenwald, dark brown color, fine model and finish | 10.85 |
| 422½ | Brown shaded, fine model, ebony fingerboard and tailpiece | 15.65 |
| 562½ | Stradivarius model, amber color, shaded, highly polished, ebony fingerboard and tailpiece | 18.25 |
| 242½ | Mittenwald, Stradivarius model, amber medium brown color, fine model and tone, full ebony trimmed | 20.25 |
| 952½ | Amati model, brown amber color highly polished, full ebony trimmed | 31.25 |

# Violin Outfits

**Each of the following outfits we believe contains the best it is possible for any house to furnish at the price. We could furnish cheaper outfits but they are unreliable and we prefer not to handle them.**

## VIOLIN OUTFIT J322.

The Violin we furnish in this outfit is a Stradivarius model finished in a medium brown color and highly polished. The black trimmings are of genuine ebony and the measurements are absolutely correct. It has an even, smooth and exceedingly mellow tone and is a good instrument at a low price. With it we furnish a maple bow with ebony frog and pearl slide, a wood violin case, set of strings, rosin and instruction book Shipped carefully boxed.
Price, complete outfit ..... $16.05

## VIOLIN OUTFIT J342.

A Violin of real musical merit. It is a full red color and highly polished. Has wide edges and genuine ebony fingerboard and tailpiece. The tone is rich, clear and pleasing, and will improve with age. In this outfit we include a Brazil wood bow with leather grip, ebony frog, pearl slide and eye and German silver button a black varnished wood case with handle and hooks, one set of superfine quality strings, rosin and instruction book This is a good outfit at a reasonable price and is sure to please. Carefully boxed
Price, complete outfit ..... $20.50

## VIOLIN OUTFIT J362.

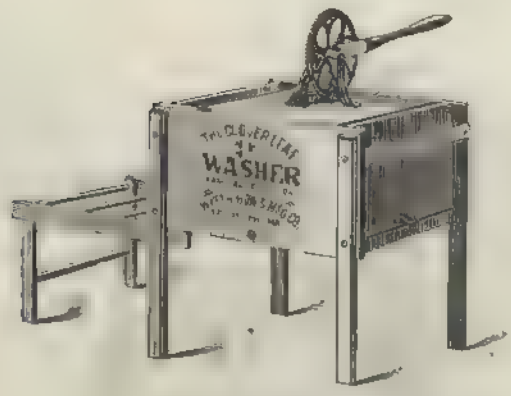
In this outfit we furnish a genuine Maggini Model Violin of excellent quality and fine tone. This Violin is a light red color, very highly polished, with a double row of inlaying and with ebony fingerboard and tailpiece. The top is of very carefully selected old spruce. An instrument of this quality usually sells alone at far more than we ask for the entire outfit. The bow is Brazil wood, octagon stick, ebony frog with pearl inlaid eye and slide, German silver lined and German silver button. We also include a black varnished wood case half lined with flannel, with handle, hooks and lock, one set of superfine quality strings, cake of rosin and an instruction book. A fine outfit for a low price.
Price, complete outfit ..... $32.90

## VIOLIN OUTFIT J382.

A fine conservatory Stradivarius Model Violin beautifully finished in a reddish brown color and highly polished. The top is of fine straight grained old spruce and trimmings solid ebony. In point of tone this instrument is strong, yet possessing a sweetness and smoothness that is remarkable in a new violin at such a low figure. The bow is Brazil wood, with ebony frog pearl inlaid eye and pearl slide German silver lined German silver button and leather grip. The wood case is exposition shape, varnished black, full flannel lined, with lock handle and nickel trimmings as shown in illustration above. We also furnish 1 set extra quality strings cake of rosin and instruction book. A very fine outfit, carefully boxed for shipment.
Price, complete outfit ..... $36.55

**¼ or ½ size Violins in any of the above outfits at the same price.**

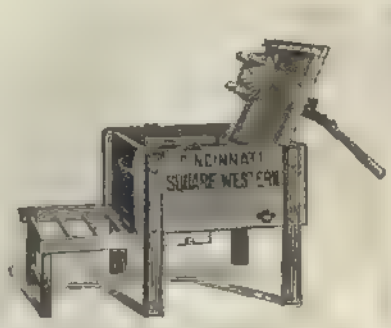
# WASHING MACHINES




CLOVER LEAF

Tub made of selected wood, finished natural color; heavy machine fitted castings, painted green; sliding rack for tub or clothes basket; cypress dasher

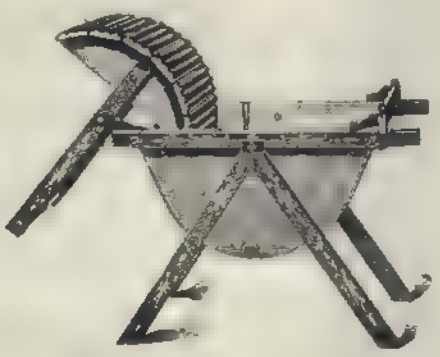
| | Each |
|---|---|
| No. 102—(Size No. 2); capacity 6 shirts; height 38 inches; length 28 inches; width 22 inches; weight 60 lbs. | $ 5 80 |




SQUARE WESTERN

Selected wood tub, finished natural color; heavy castings, painted green, machine fitted; sliding rack for tub or clothes basket; cypress dasher.

| Nos. | 202 | 203 |
|---|---|---|
| Size, Nos. | 2 | 3 |
| Capacity, shirts | 6 | 8 |
| Height, inches | 26 | |
| Length, inches | 25 | 27 |
| Width, inches | 20 | 21 |
| Weight, lbs. | 60 | 65 |
| Each | $6 00 | 6.50 |

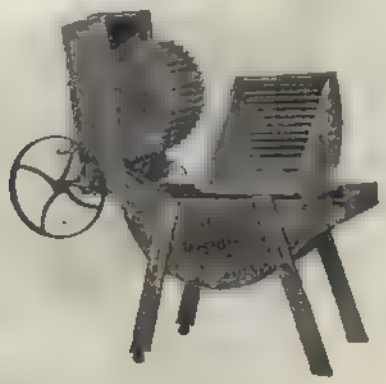


FAMILY

Heavy galvanized iron body; wood frame, painted and varnished; automatically adjusts to any size wash.

| OPEN | Each |
|---|---|
| No. 10 Height 40 inches, length 34 inches; width 21 inches; weight 30 lbs. | $ 5.50 |

| CLOSED | Each |
|---|---|
| No. 20 Height 40 inches; length 34 inches; width 21 inches, weight 44 lbs. | $ 7.50 |



BOSS

Louisiana red cypress, natural finish; all iron parts exposed to water galvanized to prevent rust; has two semi-circular rubboards which oscillate in opposite directions, rubbing, squeezing and turning clothes between.

| | Each |
|---|---|
| No. 301—(Size No. 1); capacity 10 shirts; height 44 inches; length 38 inches; width 22 inches; weight 86 lbs. | $12 00 |

CHAMPION, SINGLE ACTION

Louisiana red cypress, natural finish; lever and all operating mechanism wrought iron; all parts coming in contact with the water galvanized; has one oscillating and one stationary rubboard; operated by drawing lever backward and forward.

| | Each |
|---|---|
| No. 401—Capacity 10 shirts; height 40⅛ inches; length 35¼ inches; width 19½ inches; weight 85 lbs. | $10 50 |

## WASHING MACHINES

### WYCO, BALL BEARING

Galvanized steel body; angle iron legs, strongly braced, painted red; red Louisiana cypress top, varnished; agitator easily taken apart. will wash quickly, easily and noiselessly.

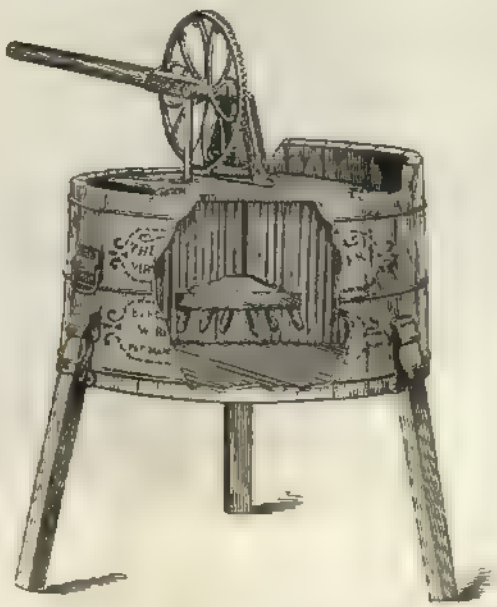
Each

No. 660—Capacity 8 shirts; height 36 inches; length 22 inches; width 21 inches; weight 37 lbs. ..... $ 8 50

### UNEEDA, AMERICAN ROUND

Best Louisiana red cypress, varnished; extra heavy castings, finished in green paint, all parts coming in contact with water being galvanized; cypress dasher; interior sides and bottom deeply corrugated; wringer attachment securely fastened.

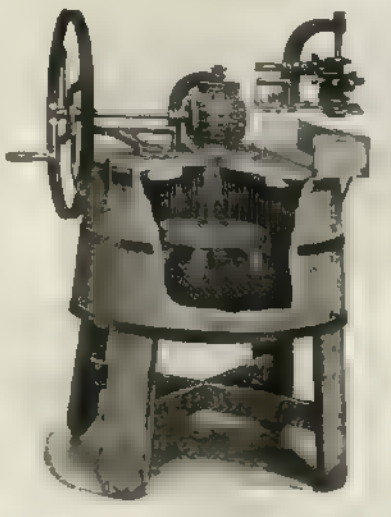
No. 504—Capacity 8 shirts; height 30 inches; diameter 24 inches; weight 53 lbs ..... $ 6.00



### WYETH

Made of best Virginia white cedar, varnished; electric welded hoops; all castings galvanized.

No. 802—Capacity 8 shirts; height 38 inches; diameter 24 inches; weight 60 lbs. ..... $ 7.00



### BANNER ROTARY

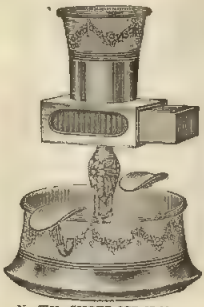
Louisiana red cypress tub; varnished lid fastened with detachable, malleable iron hinges; wringer attachment securely fastened to tub; sides and bottom deeply corrugated; few working parts, durably constructed; with roller bearings and entirely covered to eliminate danger of fingers getting caught and mangled; all iron parts which are in contact with water, galvanized to prevent rust; red cypress dasher block; two part dasher post.

Each

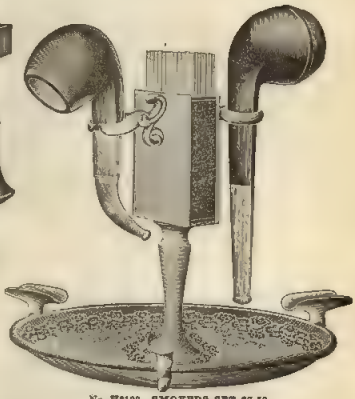
No. 702—Capacity 8 shirts; height 42 inches; diameter 24 inches; weight 85 lbs. ..... $10.00

# Extra Quality Quadruple Silver Plated Smoking Sets, Ash Trays and Tobacco Jars

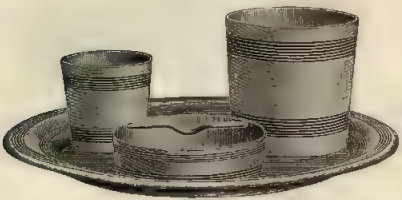
No. H2111 SMOKE SET $9.30
Burnished pierced Cigar Holder. Engine turned and engraved Tray. Height, 6 inches.
Homan Mfg. Co.



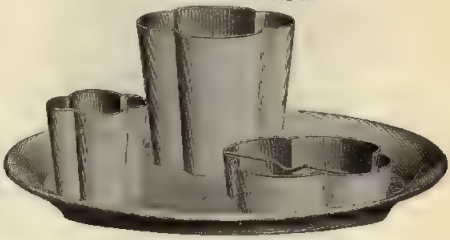
No. W53 SMOKE SET $7.10
Burnished Tray Decorated Gold Lined Ash Tray 2 Cigar Holders Match Box Holder Top pierced for three matches Cigarettes etc Height, 6½ inches Diameter, 4½ inches
E. G. Webster & Son



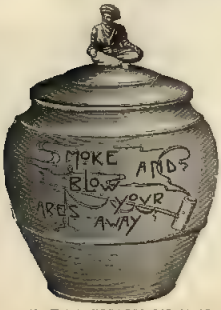
No H2109 SMOKERS SET $7.50
Burnished Match Holder and Pipe Racks. Burnished engine turned and engraved Ash Tray Height 8¾ inches.
Homan Mfg. Co.



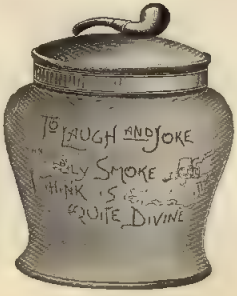
No H2105 SMOKING SET $9.30
Burnished, thread borders, gold lined. Diameter of tray 7¾ inches.
Homan Mfg. Co.



No. H2106 SMOKING SET $12.75
Burnished, fluted, gold lined. Diameter of tray, 8½ inches.
Homan Mfg. Co.




No. H1106 TOBACCO JAR $10.35
Black inlaid engraving. Height, 6¾ inches.
Homan Mfg. Co.

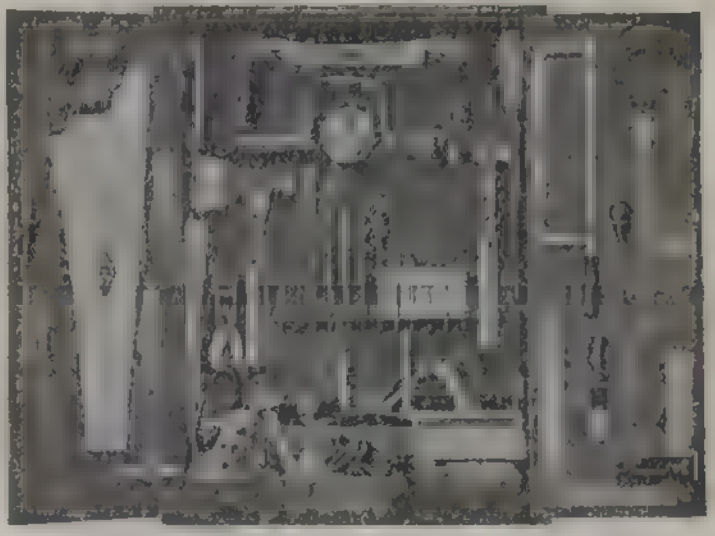



No H1107 TOBACCO JAR $9.30
Black inlaid engraving. Height, 6 inches.
Homan Mfg. Co.

No. H1149 TOBACCO JAR $9.85
Butler finish, black inlaid engraving Height, 5¾ inches
Homan Mfg. Co.

# TOOL CABINETS

*DIAMOND EDGE



### WALL CABINET

**With 49 Highest Grade Guaranteed Tools**

Made of Specially Selected **Oak, Antique Finish,** Varnished and Hand Rubbed; Two Paneled Doors with Brass Cylinder Lock and Two Keys; Nickel Plated Hinges; Inside Drawer, Two Brass Hangers on Back; Workmanship and Finish First Class.

**Dimensions of Cabinet**

**Outside**—31 inches High; 22 inches Wide, 7¾ inches Deep.

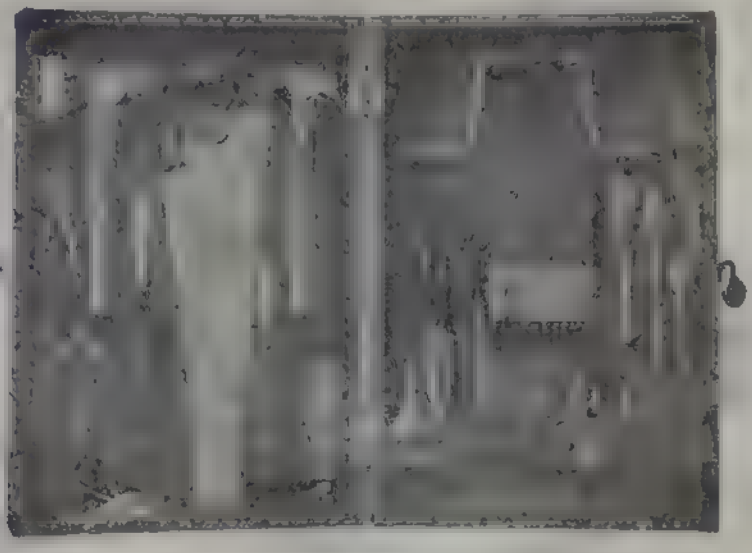
**Inside**—29½ inches High; 21 inches Wide; 7¼ inches Deep; Drawer 3 inches Deep.

No. DE500 Complete with Contents as listed below and Accessory Articles **$48 00**

**Contents of Cabinet**

1 *DIAMOND EDGE* Hand Saw, No. DE140, 22 inch.
1 *DIAMOND EDGE* Compass Saw, No. DE[illegible] inch.
1 *DIAMOND EDGE* Hack Saw, No. DE125.
1 *DIAMOND EDGE* Coping Saw, No. DE[illegible]
1 *DIAMOND EDGE* Nail Hammer, No. DE12.
1 *DIAMOND EDGE* Riveting Hammer, No. DR0.
1 *DIAMOND EDGE* Shingling Hatchet, No. DE01.
1 *DIAMOND EDGE* Drawing Knife, No. DE8, 8 inch.
1 *DIAMOND EDGE* Auger Bit, No. DE100, ⅜ inch.
1 *DIAMOND EDGE* Auger Bit, No. DE100, ½ inch.
1 *DIAMOND EDGE* Auger Bit, No. DE100, ⅝ inch.
1 *DIAMOND EDGE* Auger Bit, No. DE100, 1 inch.
*DIAMOND EDGE* Gimlet Bit, German Pattern, No. DG, 4-32 inch.
1 *DIAMOND EDGE* Gimlet Bit, German Pattern, No. DG, 8-32 inch.
1 *DIAMOND EDGE* No. DE108, 4-32 inch Drill Bit.
1 *DIAMOND EDGE* No. DE108, 8-32 inch Drill Bit.
1 *DIAMOND EDGE* Countersink Bit, No. DE14.
1 *DIAMOND EDGE* Reamer Bit, No. DE[illegible]
1 *DIAMOND EDGE* Screw Driver Bit, No. D[illegible]
1 *DIAMOND EDGE* Socket Firmer Beveled Chisel, No. DE B, ¼ inch
1 *DIAMOND EDGE* Socket Firmer Beveled Chisel, No. D[illegible] inch.
1 *DIAMOND EDGE* Socket Firmer Beveled Chisel, No. DE[illegible]
1 *DIAMOND EDGE* [illegible], 8 inch, with Handle.
1 *DIAMOND EDGE* Slim Taper File, 5½ inch, with Handle.
1 *DIAMOND EDGE* [illegible] with Handle
1 *DIAMOND EDGE* Oil Stone, Mounted, No. DEM6, 6 inch
1 *DIAMOND EDGE* [illegible]
1 *DIAMOND EDGE* Screw Driver, No. DER, 3 inch.
1 *DIAMOND EDGE* Screw Driver, No. DER, [illegible] inch
1 *DIAMOND EDGE* Nail Set, No. DE[illegible]
1 *DIAMOND EDGE* Combination Plier, Nickel Plated, No. DEN6.
1 *DIAMOND EDGE* Cabinet Scraper, No. DE[illegible]x5 inch.
1 *DIAMOND EDGE* Wrench, No. DE[illegible]
1 *DIAMOND EDGE* Steel Square, No. DEB12.
1 *DIAMOND EDGE* Ratchet Brace, No. DE80, 8 inch.
1 *DIAMOND EDGE* Divider, No. [illegible] Steel
1 *DIAMOND EDGE* Scratch Awl, No. DE[illegible]
1 Blue Diamond Tape Line, No. [illegible]
1 *DIAMOND EDGE* Block Plane, No. [illegible]
1 *DIAMOND EDGE* Jack Plane, No. DE26.
1 Shapleigh's Success Carpenters' Pencil, No. 57
1 Boxwood Rule, No. [illegible]
1 Boxwood Level, No. DE0.
1 Norligh Diamond Hickory Mallet, No. ND50
1 Zinc Oiler, No. 0.
1 [illegible]
6 Sheets *DIAMOND EDGE* Sandpaper, Assorted
1 Box Paper Cap Head Screws, [illegible]
1 Package Wire Brads, [illegible]
1 Package Wire Brads, [illegible]
1 Package Wire Brads, [illegible] inch
1 No. DE[illegible], 6 inch Try Square
1 Quilt Frame Clamp, No. [illegible]
1 [illegible] Screw, 3 inch
1 Marking Gauge, No. 62

Weight of Cabinet, with Tools 70 lbs.; Crated 90 lbs.



## *BRIDGE TOOL CO.

The **Bridge Wall Tool Cabinet** is Made of Specially **Selected Oak, Antique Finish,** Nicely Varnished and Hand Rubbed; has Paneled Box Door, with Brass Plated Hinges and Hasp, and **Antique Copper** Padlock, with Two Brass Keys; Inside Drawer; Two Brass Hangers on Back; Workmanship and Finish is First Class.

**Dimensions of Cabinet**

**Outside**—26 inches High, 17[illegible] inches Wide, 9¼ inches Deep.
**Inside**—24½ inches High, 16 inches Wide and 7¾ inches Deep. Drawer 2¾ inches Deep.

**Contents of Cabinet**

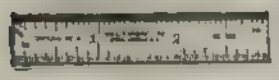
1 **Bridge** Hand Saw, No. B225, 20 inch.
**Bridge** [illegible] Hatchet, No. [illegible]
1 **Bridge** Nail Hammer, No. B11½.
**Bridge** Combination Plier, No. BN6.
1 **Bridge** Brace, No. B0108
1 **Bridge** Auger Bit, No. B75 ⅜ in.
1 **Bridge** Auger Bit, No. B[illegible] in.
**Bridge** [illegible] Bit, No. B[illegible]
1 **Bridge** [illegible] Plane, No. [illegible]
1 **Bridge** Screw Driver, No. BR, 6 inch.
1 **Bridge** Screw Driver, No. BR, 4 inch.
1 **Bridge** Mill File, 8 inch, with Handle.
1 **Bridge** Slim Taper File, 5 inch, with Handle.
1 **Bridge** Socket Firmer Chisel, No. BP, ½ inch.
1 **Bridge** Socket Firmer Chisel, No. BP, ¾ inch.
1 **Ohio** Iron Block Plane, No. BX110.
1 Cabinet Scraper, 3x5 inch.
1 Try Square, No. 20, 6 inch
1 **Bridge** Screw Awl, No. B[illegible]
1 Wing Dividers, No. [illegible] inch
1 Rule, No. 68
1 Gauge No. 61.
1 **Shapleigh** Special Oil Stone, No. 5.
1 Star Tinners' Snip, No. 2.
1 Zinc Oiler, No. 0.

Weight of Cabinet with Tools, 48 lbs.; Crated 58 lbs.

No. B75[illegible] Complete with 24 Bridge Cabinet Tools and Cabinet [illegible] Each **$22 00**

*"DIAMOND EDGE IS A QUALITY PLEDGE"*

# STARRETT TOOLS



## POLISHED STEEL RULES

**Spring Tempered -3-64ths or 18 Gauge Thick**

**No. 300**—No. 4 Graduation 64ths, 32ds, 16ths and 8ths inch.

**No. 303**—No. 4 Graduation also 32ds inch on Opposite Sides of One End.

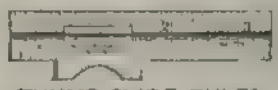
Special Attention is Directed to the Figures and Lines to Assist in Quickly Reading the 64ths or 32ds Inch.

**No. 600**—No. 4 Graduation 64ths, 32ds, 16ths and 8ths inch.

**No. 603**—No. 4 Graduation; also 32ds inch on Both Ends of One Side.

| Length, Inches | 3 | 3 | 6 | 6 | 12 | 12 |
|---|---|---|---|---|---|---|
| Width, Inches | 1/4 | 9-16 | 3/4 | 3/4 | 1 | 1 1/4 |
| Weight Each, Ozs. | 1/2 | 1 | 1 | 2 | 3 | 4 |
| Each | $0 25 | .35 | .45 | .65 | 1 00 | 1 25 |
| | .40 | .60 | .70 | .90 | 1 40 | 1 60 |
| | | | | | | 2 80 |

Six in a Box



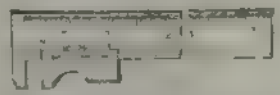
## THUMB SLIDE RULES

Spring Tempered [illegible] Graduated Both Sides. Has Sliding Head with Thumb Screw for Setting at Any Point. Can be Used on Either Edge of Rule or Between Gauges

Each

**No. 290**—6 inches Long, 1/4 Inch Wide, 3-64 inch Thick; No. 4 Graduation, 32ds, 64ths, 8ths and 16ths inch; Weight, Each, 1 oz. $1 00 1 00

Four in a Box

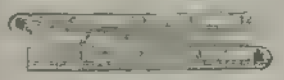


## SLIDE CALIPER RULES

Spring Tempered [illegible] Graduated Both Sides. Has Sliding Caliper Jaw for Measuring Outside and Inside Diameters, and Also Depths

Each

**No. 296**—4 inches Long, 3/8 Inch Wide, 1/4 inch Thick, 1/8 inch Depth of Jaw; No. 4 Graduation, 32ds, 64ths and 16ths; Weight, Each 1 oz. $1 90 1 25



## No. 450—FOLDING RULES

Flexible, [illegible]

| Length, Inches | 12 | 24 |
|---|---|---|
| Joints In | 4 | 6 |
| Each | 4 | 4 |
| Width of Rule | 1 | 1 |
| Each | $3 00 | $4 50 |
| | 3 50 | 4 30 |

Two in a Box

## No. 21X THIN STEEL SQUARES

For Machinists and Draughtsmen

1-20 inch Thick, Graduated [illegible] Sides and 64ths Other Side.

| Length, Inches | 2 | 2 |
|---|---|---|
| | 1 | 1 |
| Weight, Ozs. | 1 | 1 |
| Each | $1 00 | 1.50 |
| | 1.80 | 2 30 |

1-16 inch Thick; Graduated 16ths and 64ths, One Side and [illegible] Other Side.

| Length Inches | 4 | 6 | 8 | 10 |
|---|---|---|---|---|
| Weight, Ozs. | 2 | 3 | 5 | 8 |
| Each | $2 00 | 3 00 | 4 00 | 5.00 |
| | 3 00 | 4 50 | 6 00 | 7 50 |

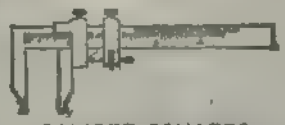
## COMBINATION SQUARES

Graduated Polished Steel Blade; Japanned Cast Iron Stock; Polished Face and Edges; Graduated in 64ths and 32ds on One Side and 16ths and 8ths on Opposite Side.

| | | Each |
|---|---|---|
| No. 23 | 12 inches; with Center Head | $2 40 2 00 |
| No. 23W | 12 inches without Center Head | 1.80 1.50 |

Weight About 1 1/4 lbs.

One in a Box



## CALIPER SQUARES

Designed for Inside and Outside Measurements, Made with Firm and Adjustable Jaw. The Beam is Nicely Graduated on One Side in 64ths and on the Other in 100 ths of an inch. With the Adjusting Screw the Sliding Head Can be More Accurately Set to the Graduations than without It.

### No. 426—WITH ADJUSTING SCREW

| Opening, Inches | 3 | 4 | 6 |
|---|---|---|---|
| Weight, Ozs. | 2 | 3 | 4 |
| Each | $4 50 | 6 50 | 11 50 |
| | 5 70 | | |

One in a Box

One in a Box

## FAY PATENT SPRING DIVIDERS

**With Spring Nut**

Polished Steel; Tempered Flat Steel Bow Spring, Quick Adjusting Self Closing Nut.

### No. 77 FAY

| Length | Weight, Ozs. | Each |
|---|---|---|
| 2 1/2 inches | 1 | $1 60 1 15 |
| 3 inches | 2 | 1 80 1 35 |
| 4 inches | 3 | 1 90 1 40 |
| 6 inches | 4 | 1 90 1 40 |
| 6 inches | 5 | 2 20 1 75 |
| 8 inches | 6 | 2.70 2 00 |

Two in a Box

## YANKEE SPRING DIVIDERS

**With Solid Nut**

Solid Steel; Tempered Flat Bow Spring

### No. 83—YANKEE

| Length | Weight, Ozs. | Each |
|---|---|---|
| 2 1/2 inches | 1 | $0 90 65 |
| 3 inches | 1 | 95 .70 |
| 4 inches | 2 | 1 00 75 |
| 5 inches | 3 | 1 10 .80 |
| 6 inches | 4 | 1 20 85 |
| 8 inches | 6 | 1.50 1 10 |

Three in a Box

**Nickel Plated**

The Head and Socket Legs of this Tool are Made from Drawn (not Cast) Bronze Metal and are Hard, Tough, and Finely Finished. The Joint is Large and Pivots on a Pivot Bushing Nut Upon Which the Arms Turn Easily and Smoothly. A Spring Arm Bears Against a Milled Head Screw for the Fine Adjustment is Made, the Nut May be Turned Back Locking Spring and Arms Firmly, an Improved Method.

The Quadrant is Fastened to

## IMPROVED BRONZE DIVIDER

A Common Pencil Fits Either Socketed Leg, while an Auxiliary Holder Fits Reversed Ends of Either Short Point for an Extension. The Head, with Short Point, is 8 inches Long; May be Extended 2 inches More; will Caliper 10 inches Outside and 12 1/2 inches Inside. With Short Points it will Scribe a 24 inch, and with Long Points a 34 inch Circle.

Each

**No. 80**—Set Complete; Weight 1 1/2 lbs. $3.40 4.00

One Set in a Box

**Polished Iron and Steel**

With Auxiliary Caliper Legs, which, Together with a Common Pencil, Form Convenient Combination. A Patent Locating Nut between the Arms, Against which a Spiral Spring Acts, is a Valuable Feature. After the Fine Adjustment is Made, the Nut May be Turned Back, Locking the Spring and Arms Firmly, thus Remedying the Weak Point which Renders the Common Wing Divider [illegible] The Joint is in the Legs Instead of Between the Arms as More [illegible] Arms are [illegible]

## IMPROVED EXTENSION DIVIDERS

The Head and Arms are Made from Best Malleable Iron or Best Steel. The Points are Carefully Hardened and Tempered.

The Head with Short Points is 7 inches Long; Extends 4 inches, and Will Scribe a 22 inch Circle and Caliper 10 inches Outside and 12 inches Inside. With Long Points [illegible] Scribe a Circle 34 inches in Diameter.

**No. 85A** With Bronze Legs, Ind. Weight [illegible] $2 00

**No. 85C** [illegible] Weight Each [illegible] 3 00 2 25

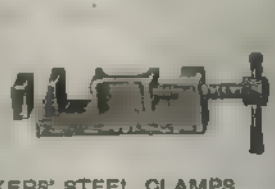
One in a Box

## TOOL MAKERS' STEEL CLAMPS

**No. 161 With Parallel Jaws**

Made of Steel, Case Hardened; Very Useful for Holding Small Work Together, when Tapping, Drilling, [illegible]

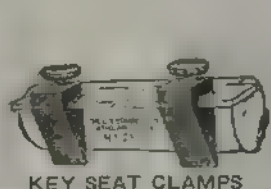
| Jaws Open, Inches | 1 1/8 | 1 1/4 | 2 1/4 | 3 1/4 |
|---|---|---|---|---|
| Length Jaws, Inches | 2 | 2 1/2 | 3 | 4 |
| Width per Pair, Ins. | 3/8 | 1/4 | 1/2 | 2 |
| Per Pair | $1 25 | 1 50 | 1 75 | 2 00 |
| Per Pair 2 Clamps | 1 80 | 2 50 | 2 70 | 3 00 |



Made from Drop Forgings, Nicely Finished, Case Hardened and Have Take Up Blocks to Slip on and off End of Screw; Will Hold Work Square and Parallel for [illegible] Drilling, Planing, Filing and Polishing. Can be Used as Clamps and Drill Jigs, Universal and Parallel.

| | | Per Pair |
|---|---|---|
| No. 160-1 | Open 1 inches, Weight 8 ozs. | $2 30 1 35 |
| No. 160-2 | Open 2 inches, Weight 15 ozs. | 3 00 1 75 |

One Pair in a Box



## KEY SEAT CLAMPS

Designed to Take [illegible] any Square Steel Scale Into a Key Seat. The [illegible] Case Hardened Steel Case Hardened and Ground [illegible] Can be Used [illegible] Square Inside and Outside Work [illegible] for a Machinist's Tool [illegible] with Accurate Results.

Per Pair

**No. 298** Size 7-16x1 inch, Weight per Pair, 1 oz. $0 85 60

One Pair in a Box

**Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Chicago, Ill.**

# TORCHES

## INSPECTORS' AND LOCOMOTIVE

### Steel, Copper Plated

No. 26

Fig. 760

Nos. 27, 28

Fig. 761

| Number | 26 | 27 | 28 |
|---|---|---|---|
| Capacity | 1 pint | 1½ pints | 1 quart |
| Diameter, inches | 2 | 4⅛ | 5¼ |
| Height, " | 7 | 4½ | 4¼ |
| Price, per dozen | 2 00 | 12 00 | 5 00 |

## BRAZED STEEL

ENGINEERS'

Fig. 762

BROAD TOP

Fig. 763

PYRAMID

Fig. 764

### ENGINEERS' TORCHES

| Price, No. 110, per dozen | 7 00 |
|---|---|

### BROAD TOP TORCHES

| Number | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
|---|---|---|---|---|---|---|---|
| Capacity | 1 pint | 1 quart | 2 quarts | 2 quarts | 2 quarts | 1 gallon | 1 gallon |
| Number of burners | 1 | 1 | 2 | 1 | 2 | 2 | 3 or 4 |
| Price, per dozen | 9 00 | 10 00 | 11 00 | 12 00 | 13 00 | 15 00 | 18 00 |

### PYRAMID TORCHES

| Number | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 |
|---|---|---|---|---|---|---|---|---|
| Capacity | 1 pint | 1 pint | 1 quart | 2 quarts | 2 quarts | 2 quarts | 4 quarts | 4 quarts |
| Number of burners | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 3 or 4 |
| Price, per dozen | 7 00 | 9 00 | 10 00 | 11 00 | 12 00 | 13 00 | 15 00 | 18 00 |

# OIL FILTERS

AMERICAN

Fig 757

CROSS

Fig 758

BURT UNIT TYPE

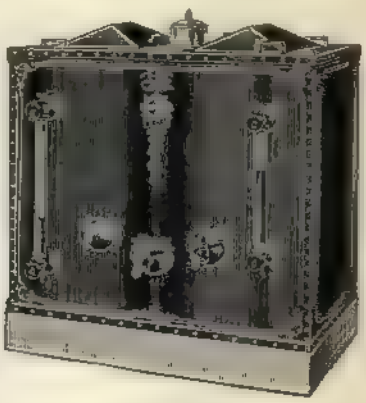


Fig. 759

## AMERICAN AND CROSS OIL FILTERS

| Number | | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Capacity per day | gallons | 15 to 20 | 3 to 5 | 30 to 40 | 50 to 60 |
| Price, American | each | 29 50 | 19.50 | 60.00 | 75 00 |
| " Cross | " | 29 50 | 19.50 | 60.00 | 75 00 |
| " " A | " | 35 00 | .... | 65.00 | 80 00 |
| " " B | " | 40.00 | 25.00 | 70.00 | 90 00 |

| Number | | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|
| Capacity per day | gallons | 70 to 90 | 100 to 120 | 120 to 150 | 150 to 200 |
| Price, American | each | 90.00 | 110.00 | 130.00 | 165.00 |
| " Cross | " | 90.00 | 110.00 | 130.00 | 165.00 |
| " " A | " | 95.00 | 110.00 | 130.00 | 165.00 |
| " " B | " | 110.00 | 130 00 | 150.00 | 180.00 |

The American filter is built along the lines of the Unit Type; no additional charge is made for use with gas or gasoline engines

Style A Cross filters are recommended for use with oiling systems.

Style B Cross filters automatically separate water from waste oil and at the same time clean the oil so that it can be used over again.

## BURT UNIT TYPE OIL FILTERS

| Number | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|
| Units | 1 | 2 | 3 | 4 | 5 | 6 |
| Capacity per day, gallons | 200 to 300 | 400 to 600 | 600 to 900 | 800 to 1200 | 1000 to 1500 | 1200 to 1800 |
| Price each | 120.00 | 240.00 | 360 00 | 480 00 | 600.00 | 720.00 |

Full detail dimensions of all the above filters furnished on application.

UNIVERSAL

# Coffee Percolators—Electric

**X-Ray View Showing Operation.**

| | | | |
|---|---|---|---|
| No. E964 | Nickel or Copper. | 4 Cups. | $19.00 |
| No. E966 | Nickel or Copper. | 6 Cups. | 20.90 |
| No. E966 | Silver Plated. | 6 Cups. | 24.10 |
| No. E969 | Nickel or Copper. | 9 Cups. | 22.80 |
| No. E969 | Silver Plated. | 9 Cups. | 27.25 |

## PATENTED VALVE AND PUMPING PROCESS

(Gives a Perfect Flow of Water Through the Tube)

which insures perfect coffee and is exclusive with Universal Coffee Percolators

UNIVERSAL

# Chafing Dish—Electric

No. E920 Nickel or Copper, $38.00 Silver Plated, $53.20

EFFICIENCY—DURABILITY—ECONOMY

# Base Ball Goods

Lace Front.

## BASEBALL SHIRTS.

Price includes lettering on Shirts.

| No | | Each. |
|---|---|---|
| 10418 | Victor, any style | $12 00 |
| 10419 | Professional, any style | 9 00 |
| 10420 | Collegiate, any style | 7 50 |
| 10421 | High School League any style | 5 20 |
| 10422 | Amateur League, any style | 3 70 |
| 10423 | Boys' Favorite, button front | 2 20 |

Detachable Sleeves on Shirts, 50 cents each shirt extra.

When ordering give measurements as shown on our measurement blanks.

## BASEBALL PANTS.

| | | |
|---|---|---|
| 10424 | Victor, any style | $11 00 |
| 10425 | Professional, any style | 9 00 |
| 10426 | Collegiate, any style | 7 00 |
| 10427 | High School League, any style | 4 80 |
| 10428 | Amateur League, any style | 3 50 |
| 10429 | Boys' Favorite, any style | 2 80 |

When ordering, give measurements as shown on our measurement blanks.

Tape Bottom

## BASEBALL CAPS.

For Colors see Uniform Cards. Sent free upon request

Chicago Style.

New York Style.

Boston Style.

University Style

Striping extra on cheap grades.

| | | |
|---|---|---|
| 10430 | Made in all styles | 65 00 |
| 10431 | Made in all styles | 1 70 |
| 10432 | Made in all styles | 1 50 |
| 10433 | Made in all styles | 1 00 |
| 10434 | Made University, Boston or Chicago style without stripes | 80 |
| 10435 | Made University, Boston or Chicago style without stripes | 50 |

See Uniform page for colors of Flannels.

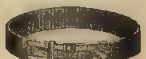
## BASEBALL HOSE.

| No | | Per pair |
|---|---|---|
| 10436 | The Victor Hose. Best quality worsted, ribbed. Any color | $3 00 |
| 10437 | League Hose. A good weight worsted hose, ribbed. Any color | 2 00 |
| 10438 | Club Hose. A good wool hose. Stock colors, navy, black, royal blue, crimson and scarlet | 1 50 |
| 10439 | Amateur Hose. Extra heavy, ribbed cotton hose, navy, maroon or black | 1 00 |
| 10440 | Good cotton hose. Navy, maroon or black | 50 |
| | Special colors, on all hose to order. Stripes in best four grades only, extra | 50 |

## BASEBALL BELTS.

No 10441.

| | | |
|---|---|---|
| 10441 | Best grade worsted web belt with leather lining, has harness buckle | $1 50 |
| 10442 | Grain Leather Belt, with leather-covered rings and buckle | 1 20 |
| 10443 | A high grade leather belt, with nickel ring and harness buckle | 1 00 |
| 10444 | A plain strap leather belt, with harness buckle | 1 00 |
| 10445 | Best worsted web belt, with double leather-covered buckles | 70 |
| 10446 | Best cotton web belt with double buckles | 50 |



Nos. 10445 and 10446.

| | | |
|---|---|---|
| 10447 | Very highest quality baseball shoe, made on popular sprinter last. Hand made from best kangaroo, with low tops; equipped with famous Victor corrugated plates | $14 00 |
| 10448 | Victor League. Made from a fine kangaroo stock on our special baseball shoe last, League cut, Goodyear welt, equipped with best quality tempered steel plates with beveled edges. A strictly high grade shoe | 10 00 |
| 10449 | The Victor Amateur. Made from a strong serviceable kangaroo calf stock, and equipped with best quality tempered steel plates with beveled edges. A very attractive shoe | 7 00 |

**One Satisfied Customer Creates Another.**

**If We Serve You Well, Tell Others; If not, Tell Us.**

**"THE HOUSE OF QUALITY"**

# Victor Boxing Gloves

The Victor line of boxing gloves appeals alike to professionals and amateurs. It embodies all the newest and approved ideas in construction and gives a broad range of choice. Extreme care is taken in manufacture, and materials used are the very best consistent with the selling price. Boxing gloves expect hard service, Victor gloves are built to stand it.

## Men's Boxing Gloves.

Corbett, Padded Wrist.

Fitzsimmons Fighting Glove.

California, Elastic Wrist.

Corbett, Laced Wrist.

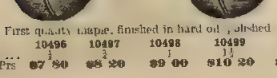
| | | Per Set. |
|---|---|---|
| 10457 | Light brown lamb, Corbett, padded laced wrist, Chicago grip leather lined | $14 00 |
| 10458 | Special green tan Napa, Corbett, padded laced wrist, Chicago grip leather lined | 14 00 |
| 10459 | Special green tan Napa, Fitzsimmons style, 5-ounce fighting glove, padded laced wrist, finger grip, and heel pad | 14 00 |
| 10460 | Special green tan Napa, Fitzsimmons style, padded laced wrist, finger grip, heel pad, 8-ounce | 14 00 |
| 10461 | Special light tan, finest quality lambskin, Corbett, laced wrist, finger grip, heel pad, welted seams, finest quality curled hair, triple stitch, Chicago grip | 14 00 |
| 10462 | Latest style instructor's glove. Best oak tan with special padded wrist, Corbett, laced wrist, with heel pad, finger grip and welted seams | 16 00 |

Corbett, Laced Wrist, Finger Grip.

California, Laced Wrist, Finger Grip

| | | |
|---|---|---|
| 10463 | Oak tan, Corbett, with green palm, padded laced wrist and finger grip | $ 9 00 |
| 10464 | 5-ounce, Napa green, California, fighting glove, with laced wrist, finger grip and heel pad | 10 00 |
| 10465 | Wine tan, Corbett, padded laced wrist and finger grip | 10 00 |
| 10466 | Brown tan, California padded laced wrist, finger grip and padded heel, specially suited for instructors | 11 00 |
| 10467 | Oak tan, Corbett, padded laced wrist, and finger grip | 12 00 |
| 10468 | Oak tan Corbett 5-ounce fighting glove, with padded laced wrist | 12 00 |
| 10469 | Brown tan with khaki palm, elastic wrist and finger grip | 3 00 |
| 10470 | Medium size, craven tan, California elastic wrist and finger grip | 4 00 |
| 10471 | Craven tan, California, laced wrist and finger grip, full size | 4 50 |
| 10472 | Brown tan, California, laced wrist and finger grip | 5 00 |
| 10473 | Craven tan, California, padded laced wrist and finger grip | 5 50 |
| 10474 | Brown tan with yellow palm, Corbett laced wrist with Chicago grip | 6 00 |
| 10475 | Yucatan tan, California, padded laced wrist and finger grip | 6 50 |
| 10476 | Olive green, Corbett, padded laced wrist and finger grip | 7 00 |

## Maple Dumb Bells.



First quality maple, finished in hard oil, polished

| | 10496 | 10497 | 10498 | 10499 | 10500 |
|---|---|---|---|---|---|
| Pounds | ¼ | ½ | 1 | 1½ | 2 |
| Per doz. Prs | $7 80 | $8 20 | $9 00 | $10 20 | $11 00 |

## Trunks.

Trunks.

| | | Pair |
|---|---|---|
| 10482 | Velvet, puffed, black, navy, royal blue and maroon | $2 00 |
| 10483 | Satin, puffed, navy, royal blue and scarlet | 2 00 |
| 10484 | Sateen, puffed, black or white | 1 50 |
| 10485 | Worsted, black, navy or crimson | 2 00 |

Running Pants.

## Turner Pants.

| | | Per Pair |
|---|---|---|
| | Best Pants made, of good grade all wool flannel cut to order from Yale gray Bridol mix, steel or Shaker gray flannel | $6 00 |
| 10487 | Y. M. C. A. Pants, made of a durable grade of gray cloth. In stock in sizes 28 to 38 waist, with a variety of lengths in inseams | $ 00 |

## Sprinting Pants.

| | | Per Pair |
|---|---|---|
| 10488 | Sateen black, navy white and maroon | $2 00 |
| 10489 | White cotton only | 1 00 |

## Victor Absorbent Cotton Gymnasium, Racing and Bathing Suits.

The Victor brand of absorbent cotton clothing is made of choice sea Island cotton. The shirts are made without seams, and this feature, together with the quality of the material, gives them an elasticity which insures a perfect fit, and makes them especially pleasing to the athletic trade.

| | | |
|---|---|---|
| 10490 | Quarter sleeve Jersey, white | $1 00 |
| 10491 | Quarter sleeve Jersey, black | 1 00 |
| 10492 | Sleeveless Jersey, white | 1 00 |
| 10493 | Sleeveless Jersey, black | 1 00 |
| 10494 | Knee Tights, white | 1 00 |
| 10495 | Knee Tights, black | 1 00 |

In stock, Jerseys, 36 to 44. Tights, 25 to 38.
Made also to special order in navy or maroon.

## Maple Indian Clubs.

First quality maple, finished in hard oil, polished

| | 10501 | 10502 | 10503 | 10504 | 10505 |
|---|---|---|---|---|---|
| Pounds | ¼ | ½ | 1 | 1½ | 2 |
| Per dozen pairs | $7 80 | $8 20 | $9 00 | $10 20 | $11 00 |
| | 10506 | 10507 | 10508 | 10509 | |
| Pounds | 2½ | 3 | 4 | 5 | |
| Per dozen pairs | $13 00 | $15 00 | $18 00 | $23 00 | |

We Are "The House of Quality." You Can Be Sure That Anything You Get From Us Is All Right.

"THE HOUSE OF QUALITY"

## LAWN SPRINKLERS

No. B4 No. F5

### FOUNTAIN

Doz.

No. B4—Baby; made of brass, handsomely polished; diameter 5¼ inches; sprays a square plot of grass; for ⅝-inch hose; throws a fine, mist-like spray; weight per dozen 5 lbs.....$ 7.00

No. F5—Regular; polished brass; diameter 8¼ inches; sprays a round plot of grass; for ¾-inch hose; throws mist-like spray and can be easily moved without turning off water, weight per dozen 8½ lbs..... 10.00

Packed, No. B4, one; No. F5, one-half dozen in box.

Doz.

No. J6—Japanese; steel frame black japanned; polished brass top; 5½x5-inch base; no revolving parts; for ¾-inch hose; spray can be adjusted by turning top; weight per dozen 22 lbs. .....$15.00

Packed, one in box.

### SARGENT

Doz.

No. 108—Japanned metal base; steel post, large sled with swivel hose connection; throws mistlike spray and can be adjusted to a very heavy spray by turning screw under base; height 9½ inches; weight per dozen 36 lbs $18.00

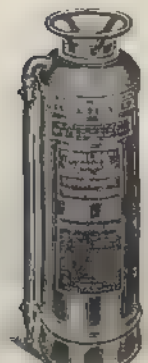
Packed, one in box

Doz.

No. C7—Revolving; steel base and frame; large sled with loose swivel for hose connection; height 8½ inches; weight per dozen 25 lbs. .....$20.00

Packed, one in box

## FIRE EXTINGUISHERS



### CHILDS' CHEMICAL

Highly polished sheet copper, embossed brass instruction plate; cast bronze top japanned hook for hanging; lead coated inside; tested to 350 lbs. pressure; red rubber hose tested to 500 lbs. pressure; fitted with lead nozzle. Each

No. C—Size 24x7 inches; with 4¼-inch brass lift and 2½-inch hook; capacity 2½ gallons; ⅝-inch hose, 18 inches long; complete with 1½ lbs. bicarbonate of soda, 8-ounce bottle with 4-ounce graduation for sulphuric acid, and lead stopper; weight 17 lbs.. $15 00

### RELIABLE

Can be successfully used in fighting electrical fires or those in materials of a highly inflammable nature; will not corrode or otherwise injure machinery or fabrics; is a combination of powerful gases in liquid form, retained without pressure and devoid of moisture.

Each

No. R—Brass extinguisher 15 inches long, diameter 3 inches; weight 4 lbs. .....$14.00

Packed, one in cardboard carton.

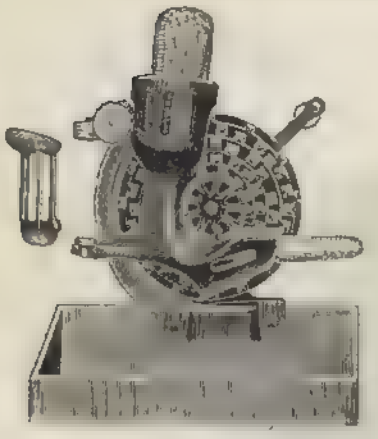
### STANDARD DRY

Each

No. S—Heavy tin tube, painted red, size 22x2¾ inches; filled with fine powder which burns in a fire and smothers the flames; easily renewed; weight per dozen 42 lbs.....$ 1.50

Packed, one in carton.

## CORN SHELLERS



### WYETH

Dos.

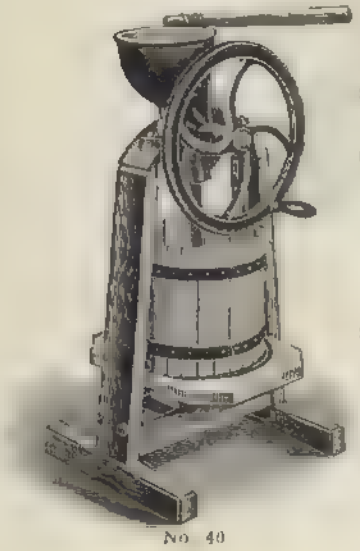
No. 100—Cast iron, black japanned; to bolt or screw to box; adjustable throat; height 11½ inches; diameter of shell wheel 7½ inches; 7 inch handle; adjustable coil spring tension, cob is thrown out beyond box containing shelled corn; complete with pop corn attachment, weight per dozen 122 lbs $15 00

### BLACK HAWK

Dos.

No. 200—Malleable iron, black japanned, bronze trimmed; to clamp on box or barrel; adjustable throat; enclosed hopper and separator; height 11½ inches, diameter of shell wheel 8½ inches, 11¼ inch handle; black japanned coil spring; wing nut adjustment, cob is thrown away from box or barrel containing shelled corn; capacity 8 to 14 bushels per hour, weight per dozen 168 lbs. ..... $35.00

## CIDER MILLS



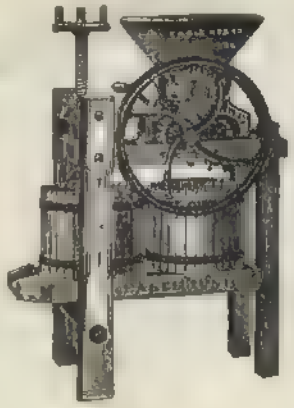
No 40

### SINGLE TUB

Seasoned hardwood frame, varnished; brown japanned and striped hopper; black japanned wheel

Each

No. 40—Entire height 42 inches, length 22½ inches, width 20 inches; hopper 10x7½ inches; 24-inch power lever; tub 13½x12 inches; 16¼-inch fly wheel; capacity one to two barrels per day; weight 115 lbs..... $10 50



No 10

### EAGLE

Seasoned hardwood frame, neatly striped and varnished, heavily bolted and trussed; all metal, japanned.

### JUNIOR

Each

No. 10—Entire height 45 inches, length 32 inches, width 20¼ inches; hopper 15x14 inches; 16-inch fly wheel; two tubs 12x10 inches; 18½-inch press screw; capacity two to four barrels per day; weight 190 lbs..... $19 00

No 20

### EAGLE

Seasoned hardwood frame, neatly striped and varnished, heavily bolted and trussed; all metal, japanned

### MEDIUM

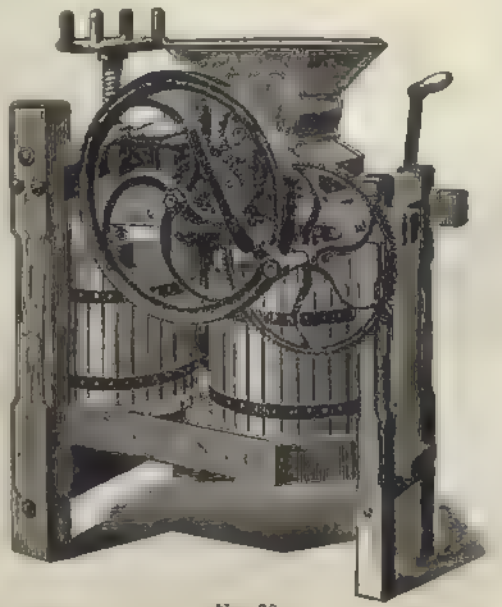
Each

No. 20—Entire height 47 inches, length 35 inches, width 22¼ inches; hopper 16x14 inches; 20-inch fly wheel; two tubs 12x14 inches; 20½-inch press screw; capacity three to six barrels per day; weight 238 lbs..... $25 50

### SENIOR

Each

No. 30—Entire height 54 inches, length 46 inches, width 30 inches; hopper 16½x14½ inches, 22½-inch fly wheel; two tubs 14x17 inches; 22-inch press screw; capacity six to ten barrels per day, weight 420 lbs..... $34.00



No. 30

# FLY TRAPS

### CHAMPION

Wire cloth painted green; tin bottom, painted red

Doz.

No. 25—Height 9⅛ inches; diameter at bottom 6 inches, at top 3¾ inches; weight per dozen 9 lbs.....$ 3.00

Packed, one dozen in box

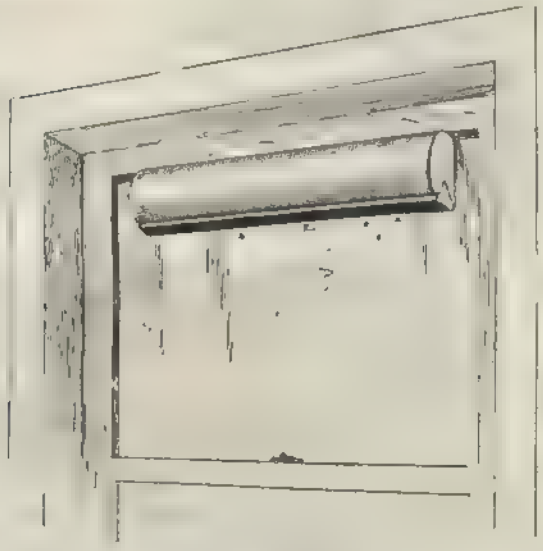
Attached to garbage can

Wire cloth, brass lacquered; reinforced with guard wires; ring on top; hook on side, two bottoms furnished, one for use on flat surfaces and other with prongs for attaching to garbage can

Doz.

No. 30—Diameter 5 inches, height 6½ inches; weight per dozen 8 lbs. . . . . ..$ 5 00

Packed, one dozen in wood box



### DELINE

End pieces, bait trough and edges made of tin; body of trap made of galvanized screen wire; made to hang up in window, screen door, against the wall, stand up on window sill on table or over garbage can

Doz

No. D90 Adjustable from 18 to 30 inches in length; 3 inches in diameter; weight per dozen 12 lbs.....$ 8 00

Packed one dozen in case

### GORDON

Sheet iron and wire cloth, handsomely painted throughout; wire handle for carrying; flies easily removed; will not blow over easily, no bolts or hooks required to put trap together

Doz

No. G100—Length 22 inches; 11 inches wide; 14 inches high; weight per dozen 40 lbs. .....$16 00

Packed half dozen in crate nested

No. 200

No. 300

### WAGNER

Doz

No. 200 Made entirely of metal, all parts riveted; removable cover; height 22 inches; diameter of cone 11½ inches; weight per dozen 50 lbs.....$16 00

Packed, one-half dozen in crate

### WAGNER BEE HIVE

Lower part of trap made of sheet steel, enameled; galvanized wire cloth; with screw cap for cleaning out the flies; lower part of trap being of steel, light is thrown into the trap from the top only and as the nature of the fly is to crawl upward and toward the light, this trap will not fail to catch them

Doz

No. 300 Height 14 inches, diameter of base 13½ inches, weight per dozen 35 lbs. . . . $16 00

Packed, one dozen in case.

# FLY KILLERS

### ST. JOE

Black wire cloth with selvedge on end and sides turned in, cloth bound; securely fastened coppered wire handle.

| | Doz. |
|---|---|
| No. 65—Size 4⅜x6½ inches; 10-inch handle; weight per dozen 1½ lbs. | $ 1.30 |

Packed, one dozen in box.

### KING

Black wire cloth, bound edges to prevent raveling; black enameled wood handle; nickeled metal reinforcement.

| | Doz. |
|---|---|
| No. 55—Size 4¾x8½ inches; 9¾-inch handle; weight per dozen 1¾ lbs | $ 1.40 |

Packed, one and two dozen in box, with display stand.

### YR

Bright wire, varnished hardwood handle

| | Doz. |
|---|---|
| No. 60—Size 5x5¼ inches; 9½-inch handle; weight per dozen 1½ lbs. | $ 1.50 |

Packed, one dozen in box.

### SWAT-STICKA

Black wire cloth, with selvedge on end and sides turned in; wood handle, painted red securely fastened to wire cloth

| | Doz. |
|---|---|
| No. 80—Size 4⅝x6¼ inches; 10-inch handle; weight per dozen 1½ lbs. | $ 0.80 |

Packed, one dozen in box

### KANT SCRATCH

Good quality black wire cloth; felt protected edges; will not mar the furniture nor rip the threads of curtains; flat tinned wire handle, twisted.

| | Doz. |
|---|---|
| No. 150—Size 4⅞x6¼ inches; 11½-inch handle; weight per dozen 1½ lbs. | $ 1 50 |

Packed, one dozen in display box

### OSBORN

Tempered steel wire which will not break, kink or tangle, black enameled wood handle, patent method of attaching wire to handle

| | Doz. |
|---|---|
| No. 70—Size 5½x8 inches 10-inch handle; weight per dozen 2 lbs. | $ 2.00 |

Packed, one dozen in box, with display stand.

# FLY PAPER

### WONDER

Perforated sheet metal top, filled with poisonous materials, set in tin pan; water to be poured in top and left standing in pan; not injurious to a person handling it.

| | Doz. |
|---|---|
| No. 35—Diameter 4¼ inches, weight per dozen 1⅝ lbs. | $ 1.70 |

Packed, one dozen in box.

### STAR

Enameled tin, to be filled with water; six wicks; flies die in a few minutes within a few feet of the killer, contains 40 per cent metallic arsenic.

| | Doz |
|---|---|
| No. 40—Diameter 5½ inches, weight per dozen 4 lbs | $ 2.00 |

Packed, one dozen in carton, one gross in case.

### TANGLEFOOT

| | Box |
|---|---|
| No. 600—Sheet 9x15½ inches, weight per box 3½ lbs | $ 0 60 |

Packed, 25 double sheets in box, ten boxes in case

# *REVOLVING SCREW AND BOLT CASES

## AMERICAN

Screw

Bolt

The top and bottoms are double, with the grain of the wood crossed, glued and screwed together and braced with iron rods, both bolt and screw cases are made of the best seasoned Tennessee Poplar, finished in imitation mahogany, the fronts of the drawers are made of the best Norway pine.

The drawers are all provided with stops to prevent their removal from the case. Each drawer holds a package of screws or bolts of the size and number indicated on the front of the drawer.

### SCREW CASES

| | Each |
|---|---|
| No. 1—33 inches high, 21 inches wide, 72 drawers, weight 125 lbs. | $33 00 $44 00 |
| No. 2—36 inches high, 21 inches wide, 80 drawers, weight 130 lbs. | 37 00 50 00 |
| No. 3—39 inches high, 24 inches wide, 88 drawers, weight 130 lbs. | 42 00 56 00 |
| No. 4—42 inches high, 25 inches wide, 96 drawers, weight 130 lbs. | 46.10 61 34 |

**No. 1 Screw Case Contains Drawers Labeled for the Following Sizes of Screws:**

½-inch Nos. 3, 4, 5, 6 and 7
⅝-inch Nos. 5, 6, 7 and 8
¾ inch Nos. 5, 6, 7, 8 and 9
⅞ inch Nos. 7, 8, 9 and 10
1 -inch Nos. 6, 7, 8, 9, 10, 11, 12, 13 and 14
1¼-inch Nos. 7, 8, 9, 10, 11, 12, 13, 14 and 15
1½-inch Nos. 8, 9, 10, 11, 12, 13, 14, 15 and 16
1¾-inch Nos. 9, 10, 11, 12, 13, 14, 15, 16 and 17
2 -inch Nos. 10, 11, 12, 13, 14, 15, 16, 17 and 18
2½-inch Nos. 12, 13, 14, 15 and 16
3 -inch Nos. 16, 18, 20 and 22

**No. 2 Screw Case Contains Drawers Labeled for the Following Sizes of Screws:**

⅜-inch Nos. 2, 3 and 4
½ inch Nos. 3, 4, 5, 6 and 7
⅝ inch Nos. 4, 5, 6, 7 and 8
¾ inch Nos. 4, 5, 6, 7, 8, 9 and 10
⅞-inch Nos. 6, 7, 8, 9, 10 and 11
1 -inch Nos. 6, 7, 8, 9, 10, 11, 12, 13 and 14
1¼-inch Nos. 7, 8, 9, 10, 11, 12, 13, 14 and 15
1½-inch Nos. 8, 9, 10, 11, 12, 13, 14, 15 and 16
1¾-inch Nos. 9, 10, 11, 12 13, 14, 15, 16 and 17
2 -inch Nos. 10, 11, 12, 13, 14, 15, 16, 17 and 18
2½-inch Nos. 12, 13, 14, 15 and 16
3 -inch Nos. 16, 18, 20 and 22.

**No. 3 Screw Case Contains Drawers Labeled for the Following Sizes of Screws:**

¼-inch Nos 1 and 2
⅜-inch Nos. 2, 3, 4 and 5
½ inch Nos. 3, 4, 5, 6 and 7
⅝-inch Nos. 4, 5, 6, 7, 8 and 9
¾-inch Nos. 4, 5, 6, 7, 8, 9 and 10
⅞-inch Nos. 6, 7, 8, 9, 10, 11 and 12
1 -inch Nos. 6, 7, 8, 9, 10, 11, 12, 13, 14 and 15
1¼-inch Nos. 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16
1½ inch Nos. 8, 9, 10, 11, 12, 13, 14, 15 and 16
1¾ inch Nos. 9, 10, 11, 12, 13, 14, 15, 16, 17 and 18
2 -inch Nos. 10, 11, 12, 13, 14, 15, 16, 17 and 18
2½-inch Nos. 12, 13, 14, 15 and 16
3 -inch Nos. 16, 18, 20 and 22.

**No. 4 Screw Case Contains Drawers Labeled for the Following Sizes of Screws:**

¼-inch Nos. 1 and 2
⅜-inch Nos. 2, 3, 4, 5 and 6
½ inch Nos. 3 4, 5 6, 7 and 8
⅝-inch Nos. 4, 5, 6, 7, 8, 9, 10 and 11
¾-inch Nos. 4, 5, 6, 7, 8, 9, 10, 11 and 12
⅞-inch Nos. 6, 7, 8, 9, 10, 11 and 12
1 -inch Nos. 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16
1¼-inch Nos. 7, 8, 9, 10, 11, 12, 13, 14 and 15
1½-inch Nos. 8, 9, 10, 11, 12, 13, 14, 15 and 16
1¾-inch Nos. 9, 10, 11, 12, 13, 14, 15, 16 and 17
2 -inch Nos. 10, 11, 12, 13, 14, 15, 16, 17 and 18
2½-inch Nos. 12, 13, 14, 15 and 16
3 -inch Nos. 16, 18, 20 and 22
3½-inch Nos. 16, 18 and 20

### BOLT CASES

| | Each |
|---|---|
| No. 1—60 inches high, 30 inches wide, 98 drawers, weight 375 lbs. | $65 30 87.10 |
| No. 2—65 inches high, 30 inches wide, 104 drawers, weight 400 lbs. | 71.30 95.10 |

No 1 bolt case contains drawers labeled for the following sizes of bolts

**Tire Bolts**

⅜-inch, 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾ and 3
½-inch, 1¾, 1½, 1⅝, 2, 2¼, 2½, 2¾ and 3
⅝-inch, 2, 2¼, 2½.

**Carriage Bolts**

⅛ inch, 1⅜, 1½, 1⅝, 2, 2⅛, 2½, 2⅝, 3, 3⅛, 3½, 3⅝, 4, 4⅛, 4½, 4⅝ and 5
¼-inch, 1¼, 1½, 1⅝, 2, 2¼, 2½, 2⅝, 3, 3⅛, 3½, 3⅝, 4, 4⅛, 4½, 4⅝, 5, 5¼, 5½ and 6
⅜-inch, 2, 2¼, 2½, 2⅝, 3, 3¼, 3½, 3⅝, 4, 4¼, 4½, 4⅝, 5 and 6
7/16-inch, 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9 and 10
½-inch, 2, 3½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10, 11 and 12

No 2 bolt case contains drawers labeled for bolts same as No. 1 with the following additions, ⅛ inch, 7½, 8½ and 9½, ¼ inch, 7½ 8½ and 9½.

NOTE—Goods marked thus (*) are for factory shipment only

# *WARREN STANDARD HARDWARE STORE FIXTURES

**Warren Standard Hardware Store Fixtures are made on the sectional interchangeable unit system**

All Cabinet units are exactly the same outside dimensions, and the base units correspond to the cabinet units in length; when set up and fastened together they come into perfect alignment and are as solid as if built in the store through this portable unit system of construction a merchant can fit up his entire store in a day, or at any time he wishes to rearrange the location of any line of goods or move into another building, these sections can be moved as easily as a filing cabinet or office desk

CABINETS: All Cabinets are 100⅝ inches long, 54 inches high, 15⅝ inches deep Half height Cabinets are 100⅝ inches long, 30 inches high, 15⅝ inches deep.

BASES: All bases are 100⅝ inches long, 31½ inches high, 30 inches deep.

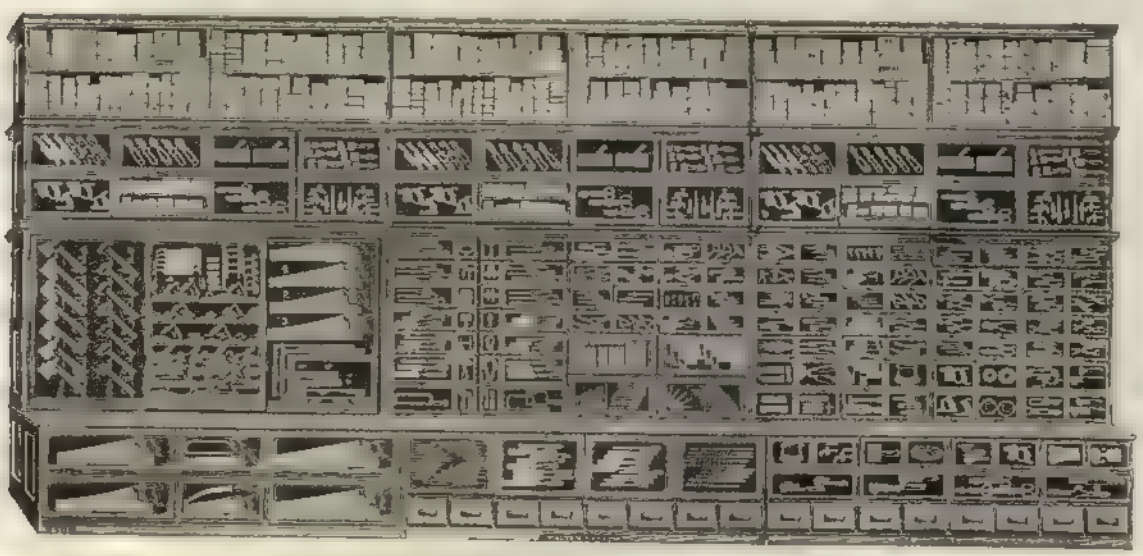
MATERIAL: The outside exposure of all Warren Standard Hardware Fixtures is made of select white oak all interior construction of soft wood, usually poplar.

FINISH. The finish of all Warren Standard Fixtures is antique oak, hand rubbed and polished, this finish will always be sent unless otherwise specified; samples sent on application.

FELT Unless otherwise instructed when order is sent us, all sample boards will be covered with, and all sliding glass door cabinets lined with, all-wool rich red felt.

HOW TO ORDER To make up an order for Warrens Sectional Hardware Fixtures it will only be necessary to use the catalog numbers of the different units desired in the order they are to be placed in the store, send us a pencil sketch with the numbers of the different units (cabinets and bases inserted showing relative location of each as they will be placed in the store

**State whether the fixtures are to be placed on the right or left hand side of the store as you enter the front door.**



**Combination No 6212** Is 25 feet 6 inches long 12 feet 1½ inches high, and is composed of six half height cabinet units, three cabinet units and three base units as follows Cabinet No 4280½H half height 30 inches high with one adjustable shelf, Cabinet No 380½H half height, glass drop fronts with one removable shelf back of each Cabinet No 3006 has three glass sliding doors with ball bearing shelves sliding on inlaid steel tracks, interior lined with rich colored all wool felt and fitted with removable tool brackets, racks shelves, etc , Cabinet No 3224 contains ten 6x6, sixteen 6x12, ten 6x18, four 8x 8 and four 8x6 inch glass front drawers, two glass front insets with drawers back of each, and two glass drop fronts with removable shelf back of each, Cabinet No 6200 contains forty 6x12 and sixteen 8x12 inch glass front drawers, all drawers provided with removable and adjustable sample boards, covered with rich colored felt and one partition, Base No 5115 contains six glass front drawers, each fitted with removable felt covered sample board; especially designed for saws levels, etc Base No 5215 contains four glass drop fronts and eight oak front drawers; back of three drop fronts are four 2⅝x22 inch oak front drawers each fitted with removable partitions back of one glass drop front are twenty 2⅝x4½-inch oak front drawers with one partition Base No 5.75 contains eight 8x12 and four 8x24 inch glass front drawers with felt covered sample boards and removable partitions and eight 8x12-inch oak front drawers with removable partitions; total approximate weight, packed, 4955 pounds

Each

$1649.06

**A complete illustrated and descriptive catalog will be mailed and prices quoted on request**

**NOTE**—Goods marked thus (*) are for factory shipment only.

## CONVEX REGISTERS

Wrought steel, black japanned; for use in shallow flues where a register with multiple valves is desired rather than a single valve register

| No. 220—Size, inches | 9x12 | 10x12 | 10x14 |
|---|---|---|---|
| Weight, lbs. | 5¼ | 5½ | 6 |
| Each | $3.00 | 3.75 | 5.00 |
| | 1.42 | 1.78 | 2 38 |

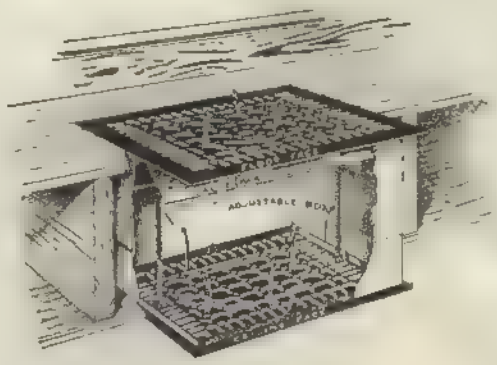
## FURNACE CHAIN

IRON

| Nos. | 16 | 18 |
|---|---|---|
| Weight per dozen yards, lbs. | 1 | ¾ |
| Dozen yards | $0.80 | .50 |

Packed, one dozen yards in box.

## VENTILATORS



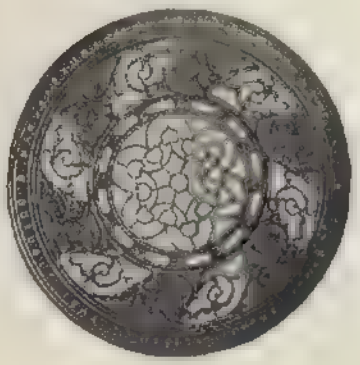
INDEPENDENT, ADJUSTABLE

Consists of black floor register with valves, white ceiling plate and sheet metal box to connect the register and plate; box adjustable from 7 to 12 inches in depth; used to carry surplus heat from a lower room to an upper room, or for ventilating between two rooms on the same floor

| Nos. | 810 | 912 | 1012 | 1014 | 1214 |
|---|---|---|---|---|---|
| Size opening, inches | 8x10 | 9x12 | 10x12 | 10x14 | 12x14 |
| Size plates, inches | 10x12 | 11x14 | 12x14 | 12x16 | 14x16 |
| Weight, lbs. | 9 | 11½ | 12¾ | 14 | 16¾ |
| Each | $2 80 | 3 20 | 4.20 | 4 80 | 6.60 |

Packed, one in box; one-quarter dozen in crate.

## STOVE PIPE REGISTERS



ADAMS

Cast iron; black japanned floor plate, white ceiling plate; floor plate has one solid and one open pattern removable cover for pipe opening; adjustable slide in rim; ceiling plate has one open removable plate.

| | Doz. Sets |
|---|---|
| No. 6—For 6-inch pipe; diameter 15½ inches; weight per dozen sets 156 lbs. | $24 00 |

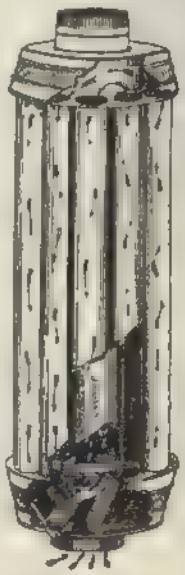
Packed, one-quarter dozen sets in case.

## UP AND DOWN RADIATORS

Full View

Made of polished steel; cast heads, flue strip, damper and legs, can be attached to any kind of cook or heating stove, furnace or air-tight heater, either close to smoke collar of stove or by setting radiator on floor above the one in which the stove is located; adapted to any fuel except soft coal, provided with direct draft damper which can be used when starting fire

| | Each |
|---|---|
| No. 61—To fit 6-inch pipe; diameter 12½ inches; height 22 inches; weight 28½ lbs. | $ 7.50 |
| No. 60—To fit 6-inch pipe; diameter 12½ inches; height 38 inches; weight 38¼ lbs. | 8.80 |



Sectional View

## FOOT WARMERS

Best grade soapstone; 1¼ inches thick; with wire bail

| Nos. | 68 | 810 | 812 |
|---|---|---|---|
| Size, inches | 6x8 | 8x10 | 8x12 |
| Weight per dozen, lbs. | 78 | 128 | 160 |
| Dozen | $6.50 | 10.00 | 10.50 |

Packed, one dozen in crate

## BASEBOARD REGISTERS

### WROUGHT STEEL

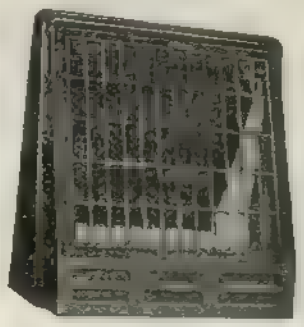
For 1-inch baseboards; solid sides, without projecting lugs; to be attached to studding with long screws; for upper floor work

| Size, inches | 8x10 | 8x12 | 9x12 | 10x12 |
|---|---|---|---|---|
| Weight, lbs. | 3½ | 4 | 4½ | 4½ |
| No. 125J - Black japanned, each | $2.00 | 2.40 | 2.50 | 3 75 |
| | 1 14 | 1.38 | 1 44 | 2 14 |
| No. 125F7½—Old copper finish, each | 3.85 | 4.35 | 4.40 | 6.00 |
| | 2 20 | 2 48 | 2 52 | 3 48 |

### WROUGHT STEEL

For 3-inch baseboards; solid sides, without projecting lugs, to be attached to studding with long screws; so constructed that floor can be cut out 3 inches from wall line, permitting the use of larger supply pipe from furnace

| Size, inches | 10x14 |
|---|---|
| Weight, lbs. | 6½ |
| No. 100J—Black japanned, each | $6 00 |
| | 3 48 |
| No. 100F7½—Old copper finish, each | $8 50 |
| | 4 85 |



### WROUGHT STEEL

For 5-inch baseboards; solid sides, without projecting lugs; to be attached to studding with long screws; designed for use where two registers are connected with one supply pipe or by cutting the floor a greater distance from baseboard a larger supply pipe can be brought from furnace

| Size, inches | 12x14 |
|---|---|
| Weight, lbs. | 9½ |
| No. 115J—Black japanned, each | $7 50 |
| | 4 28 |
| No. 115F7½—Old copper finish, each | 12.00 |
| | 6 96 |

## WALL REGISTERS

### SYMOND

Cast iron, flange ⅞ inch wide on sides; sets flush with base board, intended for second floor work but may be used for first floor also.

#### BLACK JAPANNED

| Nos. | 108J | 110J | 112J | 114J |
|---|---|---|---|---|
| Size opening, inches | 6¾x7 | 6⅝x8⅝ | 6¾x10⅝ | 6¾x12½ |
| Size frame, inches | 9¾x10 | 9⅞x11⅝ | 10x13⅝ | 10x15½ |
| Depth, frame, inches | ⅞ | ⅞ | ⅞ | ⅞ |
| Weight, lbs. | 4½ | 5¼ | 6¼ | 7 |
| Each | $1 20 | 1.30 | 1.50 | 1.80 |

#### ANTIQUE COPPER PLATED

| Nos. | 108C | 110C | 112C | 114C |
|---|---|---|---|---|
| Size opening, inches | 6¾x7 | 6⅝x8⅝ | 6¾x10⅝ | 6¾x12½ |
| Size frame, inches | 9¾x10 | 9⅞x11⅝ | 10x13⅝ | 10x15½ |
| Depth frame, inches | ⅞ | ⅞ | ⅞ | ⅞ |
| Weight, lbs. | 4½ | 5¼ | 6¼ | 7 |
| Each | $1 80 | 2.00 | 2.20 | 2.80 |

Cast iron; for first floor work only; No. 120 takes supply pipe 3 inches wider than studding; No. 124 takes supply pipe 4½ inches wider than studding.

#### BLACK JAPANNED

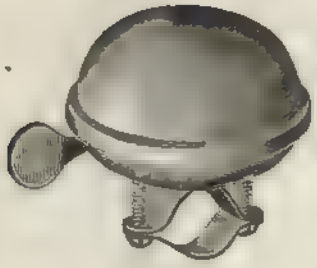
| Nos. | 120J | 124J |
|---|---|---|
| Size opening, inches | 7¾x10⅛ | 8x12¼ |
| Size frame, inches | 11x13 | 12¼x15¼ |
| Depth frame, inches | 2¾ | 3¼ |
| For pipe, inches | 10 | 12 |
| Weight, lbs. | 6½ | 9 |
| Each | $1.80 | 2.20 |

#### ANTIQUE COPPER PLATED

| Nos. | 120C | 124C |
|---|---|---|
| Size opening, inches | 7¾x10⅛ | 8x12¼ |
| Size frame, inches | 11x13 | 12¼x15¼ |
| Depth frame, inches | 2¾ | 3¼ |
| For pipe, inches | 10 | 12 |
| Weight, lbs. | 6½ | 9 |
| Each | $2.60 | 3.10 |

# BICYCLE SUNDRIES

## BELLS



No. S27BB

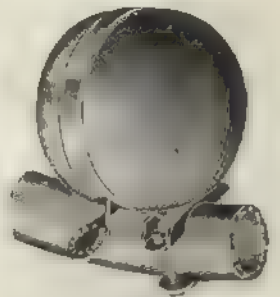
No. S28BB

Doz.

**No. S27BB**—Leader; plain; 2-inch wrought gong, heavily nickel plated; rotary electric; weight per dozen 4½ lbs.....$ 2.00

**No. S28BB** Leader fancy 2¼ inch wrought gong, heavily nickel plated, ornamented in colors, rotary electric, weight per dozen 5½ lbs. ..... 4.00

Packed, one dozen in box



No. S29BB

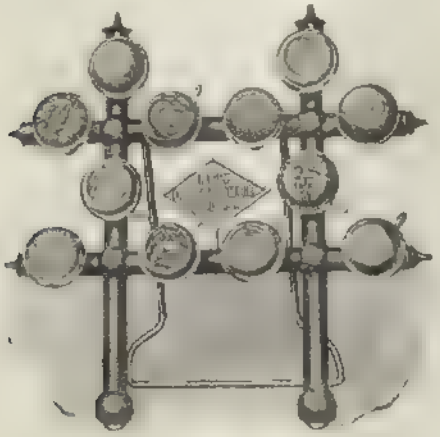
No. S30BB

Doz.

**No. S29BB**—Leader Chime; 2½-inch wrought double gong, heavily nickel plated; rotary electric; weight per dozen 6¾ lbs ..... $ 6 00

**No. S30BB** Flag, push button; 2¼-inch wrought gong heavily nickel plated, flag enameled in colors and embossed on pebbled background; weight per dozen 7 lbs. ..... 6 50

Packed, No. S29BB, one-half dozen; No. S30BB, one dozen in box

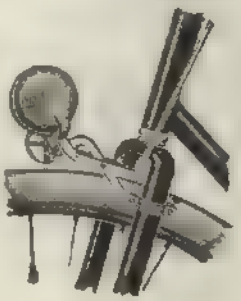


Asst.

**No. S31BB**—Zoo assortment; 2¼-inch gong; made of superior bell metal and highly finished in silver, nickel and brilliant enamel; assortment consists of one dozen bells assorted as follows One turtle, one dragon, one serpent, one lion, one fox, three American flags two fleur-de-lis and two plain top bells; weight per assortment 7 lbs.....$ 4.00

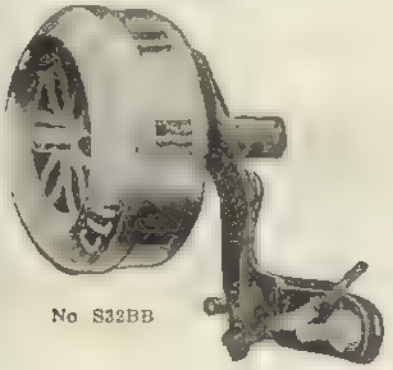
Handsome bell stand free with four dozen bells.

## BELLS



No. S22BB

## SIRENS



No S32BB

Doz

**No. S22BB**—Sandow; bicycle bell; 3-inch double gong; rotary stroke; heavily nickel plated throughout; best of construction; attaches to the front fork and is controlled by a cord from the handle bars; weight ¾ lb. .....$ 7.20

**No. S32BB** Eclipse Siren, ball bearing nickel plated finish diameter 3 inches black enameled steel brackets steel shaft revolves on steel balls set in steel cones; clamps on fork and is operated by pulling string, emits a shriek audible above the roar of street traffic; weight ½ lb..... 12.00

Packed, No. S22BB, three; No. S32BB, one in box

## SADDLES

No S6AS

Each

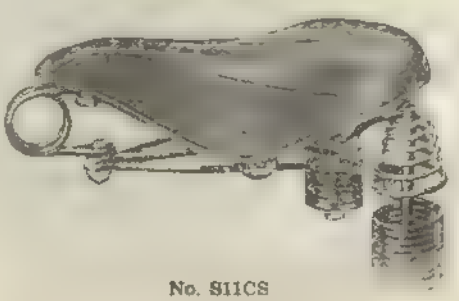
**No. S6AS**—9¼x7½-inch padded seat; nickel plated springs; weight 2¼ lbs. .....$ 0.80

No. S7SS

**No. S7SS**—Star; 10¼x8 inches; high back; divided and padded seat; nickel plated universal springs; weight 2½ lbs. ..... 1.80

No S9BS

**No. S9BS**—Eagle Diamond; 11x7¾-inch leather seat; steel wire truss and black enameled strong spring frame; weight 3¼ lbs. ..... 2.50



No. S11CS

**No. S11CS**—Eagle Easy; 10¾x8⅜-inch fine leather seat; stamped steel truss and black enameled strong spring frame; weight 4¾ lbs..... 4.00

# BICYCLE SUNDRIES

## TIRE TAPE

Pound

No. S92T—Wyeth Shield Brand; ¾ inch wide; in 1-oz. rolls.....$ 0.50

No. S93T—In 2-oz. rolls; otherwise same as No. S92T ..... .50

No. S91T—M. & W.; ¾ inch wide; in 1-oz. rolls ..... .54

## PUNCTURE CEMENT AND TIRE FLUID

No S84C

No. S80NL

Doz.

No. S84C—Wyeth Shield Brand puncture cement; ¾x4-inch needle point tubes; weight per dozen 1 lb ..... $ 1 20

No. S80NL—Never Leak Tire Fluid; a preparation to close punctures; 4-oz. tubes; weight per dozen 5½ lbs..... $ 50

No. S82NL

No. S83NL

Doz.

No. S82NL—Never Leak Tire Fluid; a preparation to close punctures; 1 gallon cans; weight per dozen 144 lbs.....$60 00

ASSORTMENT Asst.

No. S83NL—Tip Top; consists of one gross 4 oz. tubes Never Leak Tire Fluid; three counter cases and 24 premium certificates, weight 78 pounds ..... $39 00

Packed, one assortment in box.

TIRE SOLUTION Doz.

No. S115TS—Wyeth Shield Brand; for mending porous or punctured tires; stops punctures perfectly; makes leaky tires airtight; does not dry up; not affected by heat or cold; will not clog or injure the valve; one tube contains enough to treat one inner tube; weight per dozen 5 lbs....$ 1.80

Packed, one dozen in box.

## GRAPHITE

Doz.

No. S82G—Wyeth Shield Brand; ¾x4-inch sticks; high pressure; weight per dozen 1¼ lbs ..... .....$ 0.90

## PUNCTURE CLOSERS

Doz.

No. S96PC—A metal device for repairing single tube tires; assorted sizes; weight per dozen ¼ lb.....$ 1.30

## SOAPSTONE

Doz

No. SM630—M. & W. soapstone; 4-ounce patent top cans; weight per dozen 4 lbs.....$ 1.20

## REPAIR OUTFITS

Each

No. SM85B—C. O. T. acid cure solution; consisting of ¼-pint cement and acid, and a brush in a wood box, with emery covered lid for cleaning the tire; weight 1½ lbs.....$ 1.00

No. S78—Repair plug set; consisting of nickel plated tool, which comprises punch, insert and withdraw tool; six assorted sizes, ⅝ to 1⅛ inches; pure Para rubber plugs; one tube liquid rubber cement, weight 4 oz..... .70

Packed, one set in a cardboard box.

## HORNS

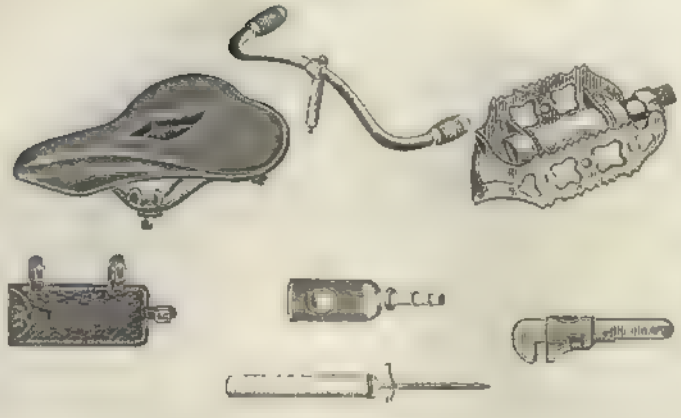
Doz

No S33BH—Bell and bend style; nickel plated; diameter of bell 3¼ inches, rubber bulb diameter 2¼ inches; length over all 9 inches; weight per dozen 8 lbs.....$10 20

Packed, one in box, bulbs loose.

# BICYCLE EQUIPMENTS

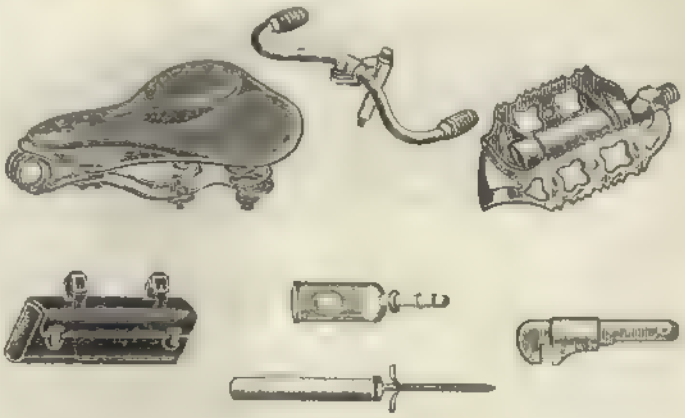
These equipments can be furnished with any of the bicycles illustrated on the preceding pages.



No. 8A Equipment

Each

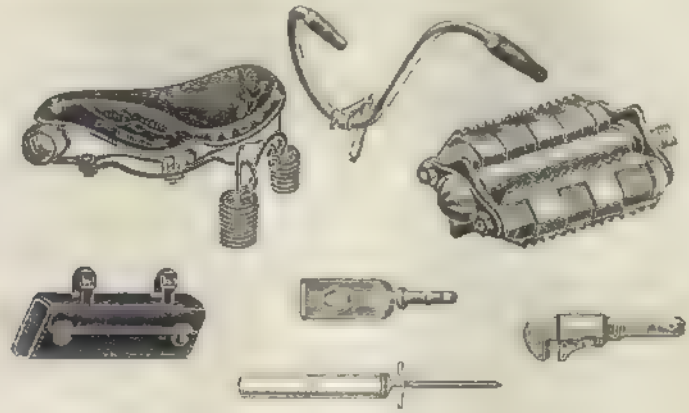
Nos. 68AS Saddle; S1HB handle bars; S10BG handle bar grips; S20P Pedals, S8TB Tool bag and tools.....$ 4.00



No. 8B Equipment

Each

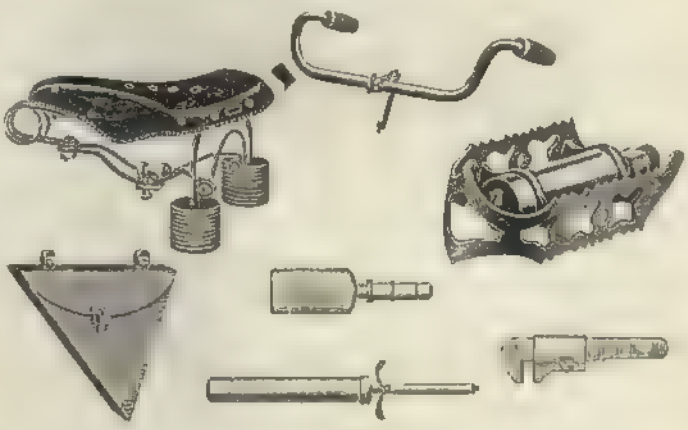
Nos. S7SS Saddle; S3HB Handle bars; S10BG Handle bar grips; S30P Pedals; S9TB Tool bag and tools. ... . . $ 6.00



No. 8C Equipment

Each

Nos. S9BS Saddle; S26HB Handle bars, S 4BG Handle bar grips; S50P Pedals; S9TB Tool bag and tools.....$ 7.00



No. 8D Equipment

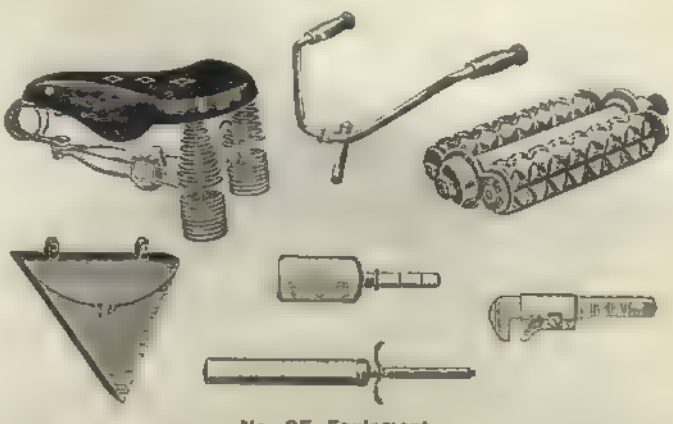
Each

Nos. S9BS Saddle; S10HB Handle bars; S11BG Handle bar grips; S30P Pedals; S10TB Tool bag and tools.....$ 7.30

No. 8E Equipment

Each

Nos. S11CS Saddle; S26HB Handle bars, S14BG Handle bar grips, S51P Pedals, S9TB Tool bag and tools. .. $ 8 50



No. 8F Equipment

Each

Nos. S11CS Saddle; S27HB Handle bars; S13BG Handle bar grips; S45P Pedals, S10TB Tool bag and tools... . ..$ 9 20

# BICYCLE TIRES

All tires, tubes and casings listed on this page are guaranteed free from any defect in material or construction.

No. SPNS

No. SNS

## SINGLE TUBE

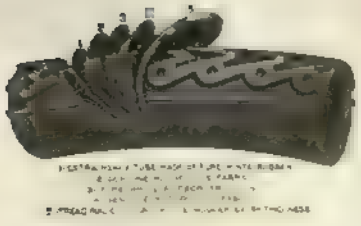
| | Pair |
|---|---|
| **No. S60**—Juvenile single tube; 26x1½ inches; corrugated tread; 2-ply fabric; weight per pair 4½ lbs. | $ 5.00 |
| **No. SPNS** Peerless non-slip, 28x1½ inch basket weave non skid tread 3 ply fabric guaranteed weight per pair 5 lbs | 5 00 |
| **No. SNSJ** Electric City Juvenile single tube thorn proof, 26x1½ inches, non skid tread; 3 ply fabric, guaranteed, weight per pair 5 lbs. | 6 00 |
| **No. SNS** Electric City; single tube, thorn proof, 28x1½ inches, non skid tread, 3 ply fabric guaranteed weight per pair 5 lbs .. | 6.00 |

No. SWC

No. SWS

## SINGLE TUBE

| | Pair |
|---|---|
| **No. SWC** Wyco Thick Tread, all red single tube, thorn proof, 28x1½ and 28x1⅝ inch connected stud, 4 ply finest Egyptian cotton, friction the most powerful that can be manufactured practically impossible to separate the different plies of fabric, guaranteed, weight per pair 5 lbs. | $ 7.00 |
| **No. SWS** Wyeth Shield Tread, single tube thorn proof, special non skid deep tread, 28x1½ inches tread of best quality red, upriver Para rubber, highest quality white rubber sides, 4 ply finest Egyptian cotton, friction the most powerful that can be manufactured, practically impossible to separate the different plies of fabric, guaranteed, weight per pair 5 lbs .. .. | 9.00 |



No SMB

Nos. SVC and SVC⅝

## SINGLE TUBE

| | Pair |
|---|---|
| **No. SMB** Continental Erie Vitalic; 28x1½ inches, special non skid tread very highest quality rubber and cotton fabric, guaranteed; weight per pair 5 lbs. | $11.00 |
| **No. SVC** Vacuum Cup red tread single tube; 28x1⅜ inch; treads are red and consist of three rows of cups which are ¼ inch in diameter and add ⅛ inch to the wearing surface of the tire; will not skid on wet pavements; made of 3 ply closely woven 10-ounce Egyptian cotton fabric; guaranteed; weight per pair 5 lbs. | 12.00 |
| **No. SVC⅝**—Vacuum Cup; 28x1⅝-inch; otherwise same as No. SVC; weight per pair 5 lbs. .. .. | 12 00 |

# BICYCLE SUNDRIES

## BALL RETAINERS

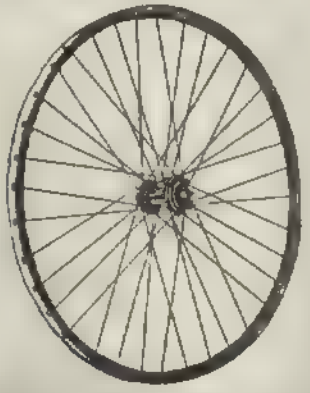
FOR HEAD OF WYETH BICYCLES

No. 843BR—1⅛-inch cup; with size ¼-inch balls; weight per dozen ¼ lb. ..... Doz $ 1.92

FOR HANGER OF WYETH BICYCLES

No. 844BR 1⅛-inch cup; with ten ⅜-inch balls, weight per dozen ¾ lb ..... Doz $ 2 40

## BUILT-UP WHEELS



Black enameled rim with red center, blue enameled rims with silver center, green and gold enameled rims with gold center and orange enameled rims with double hair line black stripe; very best nickel plated spokes.

Do not fail to specify color of rim wanted. Each

No. S1F—Front, 28-inch, regular rim, with New Departure hub; weight 2½ lbs. ..... $ 3 00
No. S1R—Rear, 28 inch, regular rim, with New Departure hub, weight 2¾ lbs. ..... 4.50
No. S1RC—Rear, 28-inch, regular rim, with New Departure coaster brake; weight 3⅞ lbs. ..... 9.00
No. S1FGJ—Front, 28-inch, G. & J. regular rim, with New Departure hub; weight 3 lbs. ..... 3.20
No. S1RGJ—Rear, 28-inch, G. & J. regular rim, with New Departure hub; weight 3¾ lbs ..... 4.70
No. S1RCGJ—Rear, 28-inch, G. & J. regular rim, with New Departure coaster brake; weight 4 lbs. ..... 9.20

NOTE Please note that above wheels are for our models 6, 6Y, 8 and 5 bicycles; are made from the very best of materials throughout and equipped with New Departure hubs

JUVENILE

Black with red center; cement rim Each

No. S1FJ—Front, 26-inch; with New Departure hub; weight 2⅛ lbs. ..... $3.00
No. S1RJ Rear 26-inch; with New Departure hub; weight 2½ lbs. ..... 4 50
No. S1RCJ Rear 26-inch; with New Departure coaster brake, weight 3⅝ lbs. ..... 10 00

## RIMS ONLY

Black enameled rims with red center; blue enameled rims with silver center; green and gold enameled rims with gold center; orange enameled rims with double hair line black stripe

Do not fail to specify color of rim wanted. Each

No. S11F—Front, 28-inch, regular rim, drilled 32 holes ..... $ 1 00
No. S11R—Rear, 28-inch, regular rim, drilled 36 holes ..... 1.00
No. S11FGJ—Front, 28 inch, G. & J. regular rim, drilled 32 holes ..... 1.30
No. S11RGJ—Rear, 28-inch, G. & J. regular rim, drilled 36 holes ..... 1.30

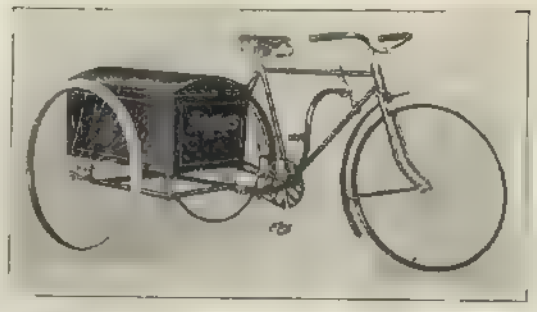
JUVENILE

Black with red center; cement rim. Each

No. S12F Front, 26-inch; drilled 28 holes. ..... $ 1 00
No. S12R Rear, 26-inch; drilled 28 holes ..... 1 00

Average weight 1½ lbs.

## *SERVICE SIDE CARS

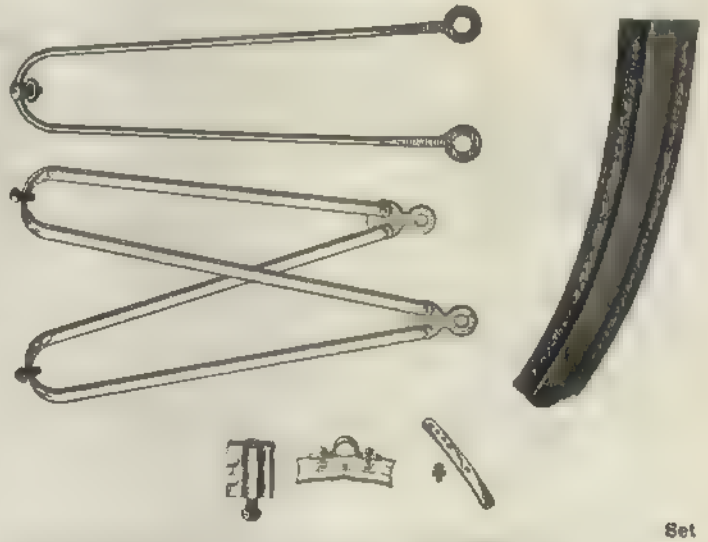


Consisting of frame, hamper and one steel rim wheel fitted with Goodrich studded tread tire, to be attached to any standard bicycle at the most rigid parts of the frame, the head, rear axle and seat post cluster; the entire width when attached to bicycle is less than 26 inches.

Each

Model R—Complete with wheel, frame and rattan hamper; size of hamper, length 24 inches, width 16 inches, depth 14 inches; weight 55 lbs. ..... $36 00
Model W—With weatherproof box; otherwise same as model R.. 36 00

## MUD GUARDS



Set

No. S1909—Black japanned guards; nickel plated fittings, complete with plug, clamps, extension strip and bolts; weight 2⅝ lbs. ..... $ 1.50
No. S1910—Silver gray with broad blue center stripe; to match Nos. S6 and S8 bicycles; otherwise same as No. S1909.... 2 00
No. S1914—Olive green with gold center stripe; to match No. S5 bicycle; otherwise same as No. S1909..... 2 00
No. S1915—Orange enameled with double black hair line stripe; to match No. S6Y bicycle; otherwise same as No S1909.... 2 00

Packed, one set in package.

## CYCLOMETERS

Doz.

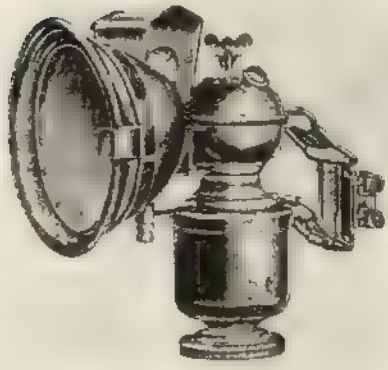
No. S187—Nickel plated and polished brass case; 10,000-mile register; mile registers by tenths; attached to hub on inside of fork; weight per dozen 1½ lbs. ..... $13.00

Packed, one in carton, one dozen in box.

NOTE—Goods marked thus (*) are for factory shipment only.

# BICYCLE SUNDRIES

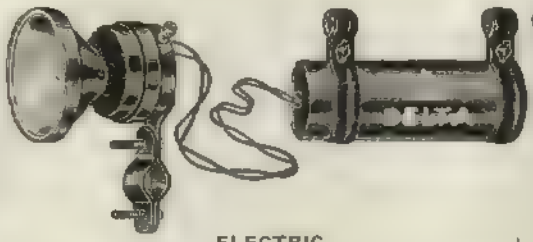
## LAMPS



**CARBIDE** Each

No. SB5L—Gaslight; nickel plated; height 6 inches; diameter of lens 3 inches; 4½ inch flare front; a good serviceable lamp; weight 1¾ lbs. ..$ 2 00

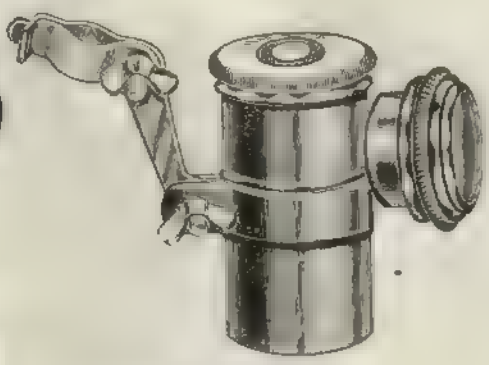
Packed, one in box.



**ELECTRIC** Each

No. SB7L—Without battery; black japanned battery box, 2⅞x7 inches, to be attached to the bicycle frame, lamp to be attached to handle bar or head of bicycle frame; complete with bulb, parabolic reflector, lens, insulated wires and brackets; weight 2 lbs . . . . ..$ 2 40

Packed, one in box.



**ELECTRIC** Each

No. SB6L—Highly nickel plated case with bull's eye lens; height 5½ inches; diameter of lens 1⅞ inches, complete with 2.7 volt bulb and No. S790 flashlight battery; weight 1¾ lbs. ..... $ 3.00

Packed one in box

**CARBIDE** Each

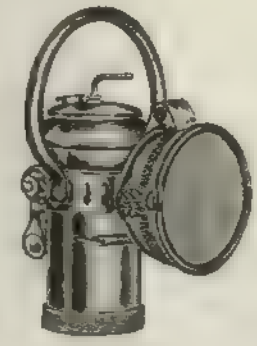
No. SB4L—Searchlight; gas; nickel plated; is simple and easy to operate; has no complicated parts; no wrench nor tool of any description is necessary; absolutely gas tight; will not jar out; improved type; removable burners; height 8 inches; weight 2 lbs..... .....$ 3.50

Packed, one in box.

**CARBIDE** Each

No. SB2L—Columbia; gas; nickel plated; positively automatic; self-cleaning water valve; size of flame regulated by gas cock; improved fish tail type, removable burners; height 6½ inches; weight 18 oz....$ 4.00

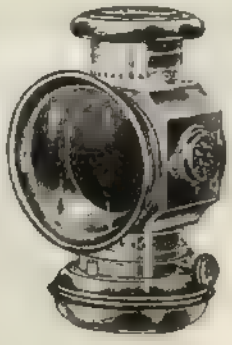
Packed, one in box.



**CARBIDE** Each

No. SB3L—Brass bail; gas; gun metal finish, with dash attachment; improved fish tail type, removable burners; height 7¼ inches to top of bail; weight 2½ lbs.....$ 5.00

Packed, one in box.



**OIL** Each

No. SB1L—Columbia; oil; nickel plated; can be lighted from either side; easily taken apart to be cleaned; weight 2 lbs. .....$ 2.50

Packed, one in box

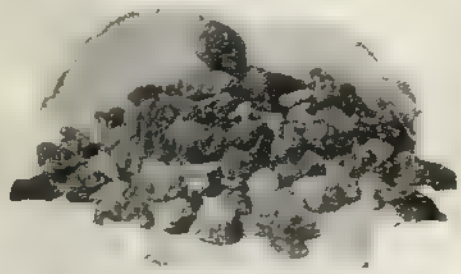
## HEAD LAMP BRACKETS

Each

No. S67B—Standard; felt lined; nickel plated; weight 5 oz. .....$ 0.20

No. S68B—Reversible; fork; felt lined; nickel plated; weight 6 oz . . .20

## CALCIUM CARBIDE



Can

No. S65 Size suitable for bicycle lamps, in 2-pound cans . ..$ 0 34

## EXTRA FISH TAIL TYPE BURNERS

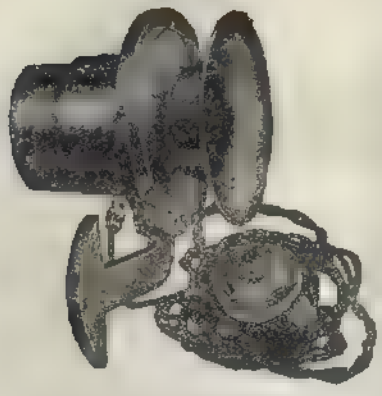
Each

No. S23LB Gas, for Nos. SB2L and SB3L lamps; weight per dozen 1 oz. ..... .. . . . ....$ 0 32

No. S24LB—Gas; for No. SB4L lamp; weight per dozen 1 oz..... . .. ..... . . .. . ..... . .. .30

# HORNS

## NEWTONE



An electric motor driven horn; self-lubricating motor; arrangement of casing permits easy inspection of commutator and brushes which are made of a material warranted not to cut the commutator, or accumulate moisture, steel laminated fields, made from 75 very thin discs of special steel, producing more power with less current consumption than any motor horn; a hardened tool steel vibrator strikes a specially prepared vanadium steel diaphragm, producing a powerful warning note; every instrument inspected before assembling; dust and waterproof

### NEWTONE

A superior grade electric motor driven horn, dust and waterproof; gives a distinctive warning signal.

| | Each | |
|---|---|---|
| No. M691 Polished brass, complete with push button and connecting cord; weight 11½ lbs. | $10 00 | $15.00 |

Packed one in box.

### SUPERIOR NEWTONE

Same grade as the Newtone but has smaller motor.

| | Each | |
|---|---|---|
| No. M375—Black and nickel; complete with push button and connecting cord; weight 10 lbs | $8 00 | $12.00 |
| No. M376—Black and brass; otherwise same as No. M375 | $8.00 | 12.00 |

Packed, one in box.

## CHALLENGE

### TYPE "F"

An electric motor driven horn; strongly constructed; all superfluous and delicate parts have been eliminated, thus reducing wearing surfaces and giving long service and freedom from breakage, any defective part will be replaced or repaired free of charge; equipped with a 7½ inch flexible tubular connection; this prevents moisture from causing short circuiting and does away with the outside terminal connection

| | Each |
|---|---|
| No. M1377 Black and nickel complete with push button and connection; weight 10 lbs. | $ 4.00 |
| No. M1378 Black and brass; otherwise same as No. M1377 | 4.50 |

Packed, one in box

# KLAXON

The Mechanical Klaxon operates on the principle of a steel diaphragm, set in violent vibration by a toothed wheel, by means of a train of gears that attain high speed under pressure on the push rod

| | Each | |
|---|---|---|
| No. M395 -Black and nickel weight 10 lbs | $7 50 | $11 25 |
| No. M396 Black and brass, weight 10 lbs | 7 50 | 11 25 |

Packed, one in box.

No. M374

| | Each | |
|---|---|---|
| No. M374—Klaxet is slightly smaller than the Klaxonet; it is a thoroughly efficient motor driven signal; finished in black enamel and brass; complete with wire and push button, weight 8 lbs. | $9.00 | $13.50 |
| No. M373—Klaxonet is smaller than the Klaxon, but operates on the same principle; finished in black enamel and brass; complete with double insulated wire and push button; weight 10¼ lbs. | $15.00 | 22 50 |
| No. M372—Klaxon type S; dustproof and waterproof; needs no screen in front and may be cleaned with a hose; finished in black enamel and brass, complete with double insulated wire and push button; weight 15 lbs. | $20.00 | 30 00 |
| No. M371—Klaxon type L; dustproof and waterproof; needs no screen in front and may be cleaned with a hose; finished in black enamel and brass complete with double insulated wire and push button and has a long projecting horn, weight 21¼ lbs | $20 00 | 30.00 |

Packed, one in wood box.

# HORNS

## HIPWELL

Autophone electric, operated from the ignition or by storage battery; easily connected; all working parts sealed and waterproof; contact points on mechanism of pure iridio-platinum; push button is attached to steering wheel in convenient reach of thumb.

| | Each |
|---|---|
| No. M379—Black and nickel; complete with push button and cord; weight 4¾ lbs. | $ 7.50 |
| No. M380—Black and brass; otherwise same as No. M379 | 7.50 |

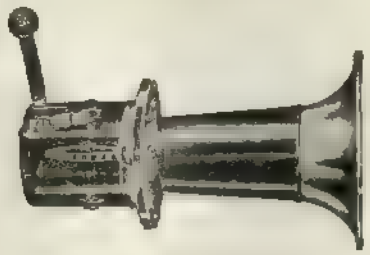
Packed, one in box.

## BENJAMIN

An electric battery horn, mechanically correct; osscillating motor; laminated magnet; Swedish spring steel diaphragm and springs; cork felt washers for diaphragm; long projector; movement contained in shallow case 1½ inches deep; novel and effective screw lock; massive contact; operated by DAD push button conveniently attached to steering wheel; the whole top of this button is a moving element, giving instant contact by a slight pressure.

| | Each |
|---|---|
| No. M1379—Black and nickel, complete with push button and cable; weight 4 lbs. | $ 8.00 |

## SPARTAN



A hand operated horn which never fails to work; a pressure on the knob or button sets a toothed wheel in motion by means of a spiral rod, causing the diaphragm to vibrate, giving a clear warning signal; all wearing parts hardened; each horn guaranteed; complete with bracket for attaching.

| | Each |
|---|---|
| No. M1395—Black and nickel; weight 4½ lbs. | $ 7.50 |
| No. M1396—Black and brass; weight 4½ lbs. | 7.50 |

Packed, one in box.

Electrically operated Spartan horns are scientifically constructed, correct in every detail, designed to secure maximum tone with minimum current consumption

**Model D**

| | Each | |
|---|---|---|
| *No. M1392—Black and nickel or black and brass; large projection and bell; weight 15 lbs. | $15.00 | $22 50 |

**Model U**

| | Each | |
|---|---|---|
| *No. M1393—All black; large projection, without bell; weight 12 lbs. | $14 00 | $21 00 |

**Model B**

| | Each | |
|---|---|---|
| *No. M1390—Same as Model D, except smaller; weight 6½ lbs. | $10 50 | $15.75 |

**Model J**

| | Each | |
|---|---|---|
| *No. M1391—Same as Model U, except smaller; weight 6 lbs. | $9.50 | $14 25 |

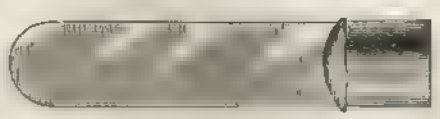
## SEAMLESS HORN BULBS

Made of finest quality mechanically cured rubber, for all types of dragon horns.

| | Each |
|---|---|
| No. M220—Size No. 12, 3⅛x5¾ inches | $ 1.00 |
| No. M221—Size No. 14, 3⅞x6½ inches | 1.10 |
| No. M222—Size No. 16, 4 x6½ inches | 1.20 |

Average weight 1 lb. each.

## HORN REEDS



The most vital part of a horn; made from specially annealed, noncorrosive metal; accurately adjusted.

| | Doz. |
|---|---|
| No. M230—Medium size; weight per dozen 1 lb | $ 3.00 |

NOTE—Goods marked thus (*) are for factory shipment only.

# AUTO CLOTHING

## GLOVES

No. MG8

No MG9

No. MG10

Nos. MG15 to MG21

No MG16

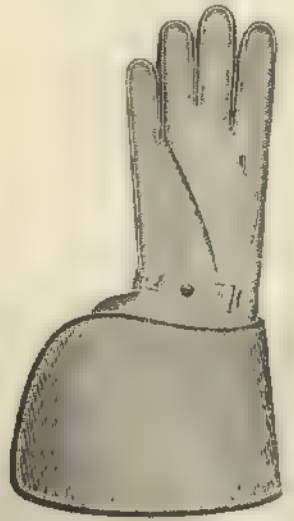
| | Doz. Pairs |
|---|---|
| No. MG8—Calumet; rainproof dark mohair, with undressed tan leather palms; 7-inch pantasote gauntlet; weight per dozen pairs 6¼ lbs. | $10.00 |
| No. MG9—Price tan kip gauntlet; palm and back very soft and pliable; 6-inch gauntlet with soft leather gore, weight per dozen pairs 5½ lbs. | 20 00 |
| No. MG10—Price smoked horse hide gauntlet; brown cape back and cuff; bell shaped cuff 4½ inches deep, 15 inches around; weight per dozen pairs 6½ lbs. | 26.40 |
| No. MG15—Price black cape auto gauntlet; cuff made with soft gore and two clasps; bell shaped cuff 6½ inches deep, 16 inches around when closed, 18 inches when open, weight per dozen pairs 7 lbs. | 38 50 |
| No. MG20—Price black imported gauntlet; bell shaped cuff, 6½ inches deep, 18 inches around cuff when closed, when open 22 inches; gore and two clasps; weight per dozen pairs 8¼ lbs | 54.00 |
| No. MG20V—Ventilated to allow for circulation of air around hand; otherwise same as No. MG20, weight per dozen pairs 8½ lbs. | 54 00 |
| No. MG21—Tan imported cape; otherwise same as No. MG20; weight per dozen 8¼ lbs | 54.00 |
| No. MG16—Price tan leather gauntlet; palm and back very soft and pliable leather; fleece lined; 6-inch cloth lined cuff; weight per dozen pairs 6 lbs. | 42.00 |

No. MG16½

Nos. MG17 and MG19

No. MG30

No. MG40



No. MG41

| | Doz. Pairs |
|---|---|
| No. MG16½—Price black leather one finger gauntlet mitten, palm and back fleece lined, cloth lined leather bound 6-inch cuffs with soft leather gore, weight per dozen pairs 8⅜ lbs. | $42 00 |
| No. MG17—Price black cape gauntlet, 4-inch soft gore, button strap at wrist; cuff 6½ inches deep and 18 inches around, weight per dozen pairs 7¼ lbs. | 48 00 |
| No. MG19—Price black leather gauntlet, palm, back and fingers fleece lined; 6-inch cloth lined and leather bound cuff with soft leather gore; weight per dozen pairs 8⅜ lbs | 48.00 |
| No. MG30 Price black domestic cape gauntlet; highest grade military leather; bound box cuff, handsome and very stylish glove; length 10 inches; cuff 6 inches deep, 14 inches around; provided with loose gore of 3 inches; button strap wrist weight per dozen pairs 10 lbs. | 84 00 |
| No. MG40—Price tan horse hide gauntlet glove; otherwise same as No. MG30; weight per dozen pairs 10½ lbs. | 90 00 |
| No. MG41—Price tan leather gauntlet palm and back very soft and pliable; 6-inch leather bound box cuff with soft leather gore, weight per dozen pairs 12 lbs. | 102 00 |

Packed, Nos. MG8 and MG10, one dozen pairs; Nos. MG41, MG30 and MG40, one-sixth dozen pairs; balance, one-half dozen pairs in box

# AUTO CLOTHING

## CHAUFFEUR ROBES

Nos. XX and 1

Patented Nov 3rd, 1908
**No. 228**

### SPRING BELT

Spring Belt Chauffeur Robe, radical new departure in the line of auto robes, more closely resembles a coat than a robe; heavily lined and has deep warm foot pockets spring at the top fits close up under the arms and overlaps in the back, making a complete covering for the body; allows perfect foot action for the operation of the pedals and is entirely waterproof.

| | Each |
|---|---|
| **No. XX**—Made with good weight rubber drill face; lined with 2 ply black Kersey cloth; lined foot pockets; with pliable leather sole | $ 9 76 |
| **No. 1**—Made with heavy velvet finish drill face, lined with green plush; warmly lined all leather foot pockets | 12.76 |

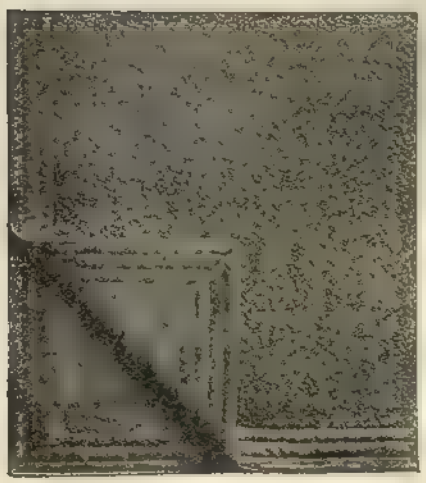
### SHO-FUR

| | Each |
|---|---|
| **No. 228**—Sho-Fur Robe; rubber face; green plush lined; with foot pockets | $ 9 00 |

# AUTOMOBILE ROBES

### WATERPROOF AND RUBBER FACE

| | Each |
|---|---|
| **No. 500X** Grey waterproof; covert cloth; plaid check back; size 50x72 inches | $ 3.50 |
| **No. 502X** Handsome brown plaid blanket cloth with red stripes; rubber lined; size 54x72 inches | 4.50 |
| **No. 224**—Rubber face; green plush lined; size 51x72 inches | 7 00 |
| **No. 225**—Rubber face; dark and light green striped; plush lined; size 54x66 inches | 6.50 |



No. 505X

### RUBBER INTERLINED

| | Each |
|---|---|
| **No. 505X** Double green carriage cloth; size 54x72 inches | $ 6 50 |
| **No. 513½**—Fine double Astrakhan cloth; brown face; blue back size 54x72 inches | 8 00 |
| **No. 554½**—Heavy green kersey face, Astrakhan cloth back; size 54x72 inches | 9 50 |
| **No. 509X**—Fine Astrakhan face; green carriage cloth back; size 54x72 inches | 10.00 |
| **No. 512X** Fine Astrachan cloth face and back; black; size 54x72 inches | 11.50 |
| **Alaska** Dark moose fur cloth face; dark green Astrakhan cloth back; green pinked border; size 54x72 inches | 11.50 |
| **Persian** Black Astrakhan face and back; pinked edge; size 54x72 inches | 12 50 |
| **Idaho** Moose fur cloth face and back; brown pinked border; size 54x72 inches | 13 50 |
| **Utah**—Light moose fur cloth face; brown Astrakhan cloth back; pinked edge; size 54x72 inches | 10 50 |
| **Polar B** Double plush; brown shaded; black back; double felt border; size 54x66 inches | 12 50 |
| **No. 334**—Double plush, brown shaded sunburst face; black back; size 54x66 inches | 11 50 |
| **Lapland** Double plush; brown fur effect, black back; double felt border; size 54x66 inches | 14 50 |

### DOUBLE PLUSH

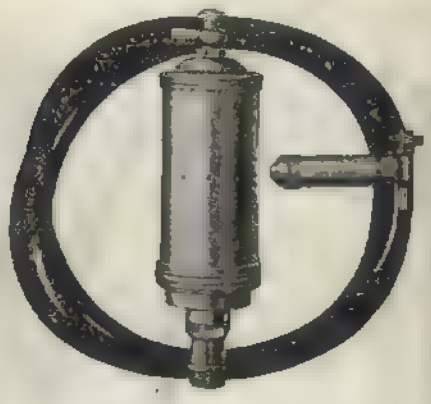
| | Each |
|---|---|
| **No. 234**—Extra quality double plush; green face; black back; size 54x72 inches | $ 9.00 |
| **No. 2050½**—Double plush; green face; black back; size 56x72 inches | 8.00 |
| **No. 1205**—Double-plush; black face and back; size 56x72 inches | 11.50 |

# POWER PUMPS

### DEWEY

Brass; working parts very simple and cannot get out of order; tubing of the best grade, tested to 1000 pounds. There are several methods of using this pump; first, unscrew the spark plug, attach the pump and start the engine; second, tap one of the removable plugs over the valves and permanently attach the pump; when pump is needed, open the valve and start the engine.

| | Each |
|---|---|
| No. M812—Length 12 inches; complete with 12 feet of hose and dial gauge; weight 3¾ lbs. | $12 00 |



### UTILITY

Lacquered brass case; working parts bronze and steel; braid covered tubing tested to 1000 pounds; two blued steel spark plug adapters, one each Standard and A. L. A. M.; hose equipped with Pneu-Meter which makes it impossible to explode tires from over-inflation.

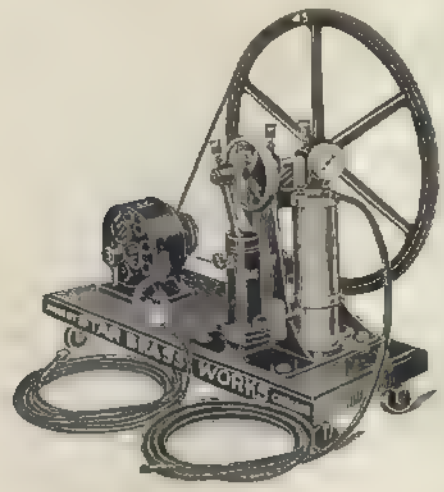
| | Each |
|---|---|
| No. M825—Height 7 inches; diameter 2¾ inches; complete with two spark plug adapters, 12 feet of tubing, Pneu-Meter, and wrench; weight 5 lbs. | $19.00 |

Packed, one in box.

### BROWN IMPULSE

Triple expansion; but one moving part; noiseless; fool-proof; simple in construction and efficient; impossible for gas from cylinders to enter tire; adapted to any 4-cycle motor; inflates tire in from one to four minutes

| | Each |
|---|---|
| No. M818—½-inch standard; complete with quick detachable spark plug, 12 feet high grade air hose; accurate gauge, and self-opening hose connection; weight 8 lbs. | $20 50 |
| No. M818⅞—⅞-inch A. L. A. M.; otherwise same as No. M818 | 20.50 |

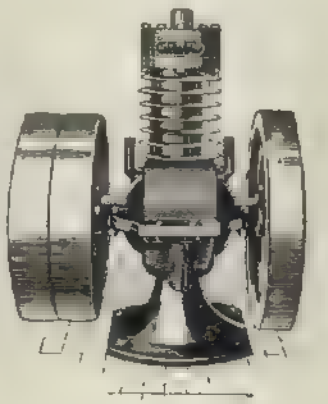


### *BINKS ELECTRIC

A portable compound motor driven air compressor or pump; made of best grade iron; black japanned and gold striped.

Cylinder bore 2 inches; piston stroke 3½ inches; fitted with spring grease cups; valves being of special construction need no attention; oil extractor between pump and hose prevents any oil from entering the tires; blow-off valve can be regulated to any pressure desired; mounted on 12x30-inch platform, with ball bearing swivel casters.

| | Each |
|---|---|
| No. M2820—110 volts; complete with 1-6 horse power motor, pressure gauge; 15 feet lamp cord, 10 feet air hose; weight 130 lbs. | $108.00 |



### AUTO

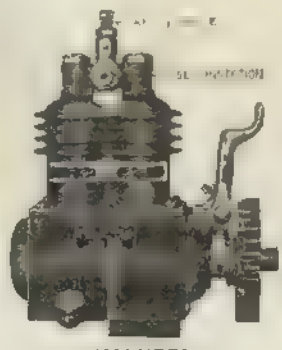
A single cylinder, single acting, air-cooled, power air compressor or pump.

For garages requiring not more than 6¼ cubic feet of air per minute and not more than 300 pounds' pressure.

Crank shaft, connecting rod and cap forged from high quality steel; bronze bearings and bushings; lubrication by splash system; valve of a new and exclusive rotating pattern, easily accessible.

Cylinder bore 3 inches; piston stroke 4 inches; diameter of fly wheel 14 inches; tight and loose pulleys, diameter 13 inches; assembled and set up ready to connect to pipe.

| | Each |
|---|---|
| No. M2800—Height 21 inches; floor space 14x18 inches; weight 120 lbs. | $55.00 |
| No. M2801—Air gauge for above pump.. | 4.00 |
| No. M2802—Safety valve for above pump | 2.50 |



### *MANZEL

A double cylinder engine driven tire pump; built like an engine; all metal; cylinders, piston and piston rings are of fine gray iron; bronze connecting rods; all bearings either steel or bronze; cylinders are air cooled and are 1⅝-inch bore; piston stroke 1½ inch; crank shaft, made of forged steel, is ground and lapped in phosphor bronze bearings and works in an aluminum case. Every pump equipped with a complete hose outfit, consisting of 15 feet of air hose and necessary connections, nickel plated 150 pound pressure gauge, 1½-inch diameter, and air filter for filtering the air before it enters the hose.

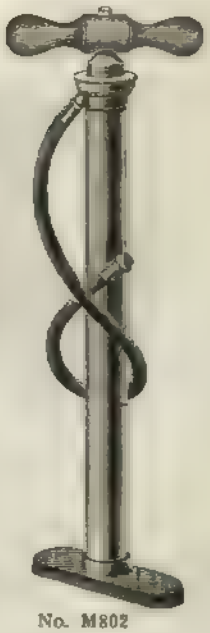
We have complete outfits for Buick, Cadillac, Reo, Overland, Hudson, Chalmers, Paige, Maxwell, Oakland, Case, Packard, Abbot-Detroit, Cartercar, Cole, E. M. F 30, Franklin 6, Kissel Kar, Imperial 6, Mitchell, Oldsmobile, Rambler, Studebaker, Viele and other makes

| | Each | |
|---|---|---|
| No. M2830—Height 8 inches; length 6¼ inches; width 4⅛ inches; complete with all fittings, gears bracket, 15 feet of hose, pressure gauge; air filter, etc.; weight from 13 to 18 lbs. | $20.00 | $30 00 |

NOTE—Goods marked thus (*) are for factory shipment only.

# TIRE PUMPS

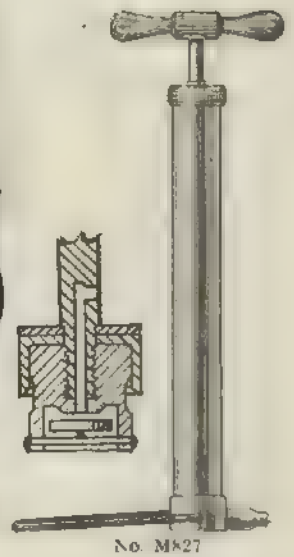
No. M800


No. M802

Nos M803 and M804

No. M805

No M807


No. M827

### FLOOR

Each

**No. M800**—Seamless brass barrel, highly polished, 1¼x20 inches; fitted with 15-inch rubber connection check valve and heavy coupling; height 26 inches; weight 2¼ lbs. ..... $ 1.60

### IDEAL

Each

**No. M803** Double cylinder compound pump; seamless brass barrels; fitted with 24-inch rubber connection and heavy brass couplings, cast base, size of large cylinder 2x26 inches, small cylinder ⅞x16 inches, delivers a large volume of air with little effort, height 20 inches; weight 5 lbs. ..... $ 2.70

### NOERA COMPOUND

Seamless brass barrels, polished, fitted with 22-inch rubber connections and heavy brass couplings; varnished wood handles; cast base; the down stroke gives the compression; the up stroke compresses the air still more and forces it into the tire.

Each

**No. M802**—Senior; size 1⅜x18 inches; height 22 inches; weight 5¼ lbs. ..... $ 4.50

### AEOLUS

Each

**No. M804**—Very powerful and exceptionally good double cylinder, compound automobile pump; cylinders of seamless brass tubing with heavy cast top and foot base; absolutely tight joints, without gauge; height 20 inches weight 4¾ lbs. ..... $ 3 00

**No. M804W** Washers for packing top of No. M804 Aeolus pump; weight per dozen ½ oz. ..... .40

### STAPELY COMPOUND

Made of highly polished brass; no complicated parts, no valves to get out of order; easy to operate; fitted with 24-inch rubber connection and heavy brass coupling, varnished red wood handle, cast base. The air compression is made on the down stroke but the delivery into the tire on the up stroke.

Each

**No. M805**—Without gauge; size of barrel 1¾ inches; height 20 inches; weight 6½ lbs. ..... $ 5.00

### VICTOR COMPOUND

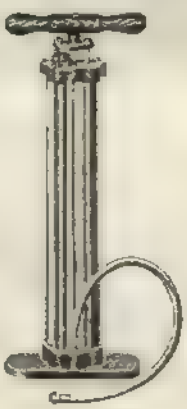
Each

**No M807** Triple Action, especially convenient and satisfactory automobile pump, has the largest cylinder capacity and easiest working principle of any hand operated pump, its three cylinders will inflate a tire in thirty strokes, requiring about half a minute of time; the packings are made of anhydrous leather and will withstand the most severe use, weight 7¾ lbs. ..... $ 7 00

### ROSE

Each

**No. M827** Frictionless, valve permits a full supply of air below plunger, no vacuum in cylinder, compression at every point, seamless steel cylinder, size 1¼x20 inches; with 24 inches rubber tubing; weight 3¼ lbs. ..... $ 4.00


No 829

### HERCULES

Each

**No. M829**—Three cylinder compound; three polished brass cylinders, ¾, 1¼ and 1¾ inches in diameter; detachable hardwood handle; green enameled cast base; extreme height 22½ inches; fitted with 23-inch, 4 ply rubber tubing and quick action brass tire coupling; weight 8 lbs. ..... $ 7.00

Packed, one in box.

### LEVER

Each

**No. M809**—A genuine compound pump; one cylinder 3½ inches and the other 2 inches in diameter; large cylinder pumps into the small one and the small one pumps the compressed air into the tire or tank; cylinders, bases and ground valves are all brass and the pump is of finest quality throughout; will pump 150 pounds pressure or more, and is fitted with the best quality hose and Keno nipple; each pump furnished with a varnished wooden base 8 inches wide, 30 inches long and 2 inches thick; complete with register gauge; weight 24 lbs. ..... $18.00

No. M809

# AUTOMOBILE LAMPS

## TAIL

No. M15

No. M170

No. M16

No. M18

| | Each |
|---|---|
| **No. M15**—Dusty oil, 2½ inch rear, 4-inch front lights, strong and compact, made of heavy brass; large side hood; socket is securely attached, tank is locked by a special feature which renders its loss almost impossible, light will not blow out, height 8 inches; weight 2 lbs | $ 2 20 |
| **No. M170** Victor oil, 3-inch clear glass in door, 2⅝ inch ruby rear signal, japanned with nickel top, height 9¼ inches, weight 4 lbs | 3 00 |
| **No. M16** Oil, black and nickel, round ruby rear signal, diameter of door 4¼ inches, fitted with clear glass, best of construction, height 9½ inches; weight 4½ lbs. | 4.50 |
| **No. M16½**—Black and brass; otherwise same as No. M16 | 4.80 |
| **No. M18**—Electric; one-piece black enameled casting; 2-inch ruby and 2½-inch white lens; equipped with 6-volt, 2-candle power carbon bulb, with candelabra base; weight ¾ lb. | 1.60 |

**Packed, one in cardboard box**

No. M173

No. M187

No. M188

### TORPEDO

Torpedo electric; body drawn from one piece of heavy brass; silver plated reflector; 1⅜ inch ruby and 3½-inch white lens; wired and fitted with Ediswan sockets and Tungsten bulbs, diameter 3¾ inches

| | Each |
|---|---|
| **No. M173**—Black and nickel, weight 14 oz | $ 3 00 |

Packed, one in box

### NEVEROUT

Neverout electric, body drawn from one piece of heavy steel, fitted with Tungsten wire drawn bulb, Ediswan base and socket, 3-inch ruby lens, clear glass in under side of body throws light on license; all parts interchangeable; easily taken apart

| | Each |
|---|---|
| **No. M187**—Gun metal finish; combination socket fits any lamp bracket; weight 1 lb. | $ 2 80 |

Packed, one in package

### With License Bracket

| | Each |
|---|---|
| **No. M188** Width of bracket 10¼ inches, height of lamp and bracket 6¼ inches, fits any lamp socket, weight 1½ lbs | $ 3 60 |

Packed, one in package.

# AUTOMOBILE LAMPS

## DASH

No. M130

No. M362

No. M130—Dash Lamp; made of brass, polished and lacquered; extends 3½ inches from dash; drop 3½ inches; candelabra base; adjustable guard; weight 5 oz. ..... $ 3.00

No. M362—Hipwell electric dash or dome lamp; polished brass finish; can be attached to the car where desired or most convenient; provided with shutter to protect bulb when not in use; operated by storage or dry batteries; complete with bulb and cord; weight 8 oz.. ..... ..... ..... 2.00

Packed, No. M130, one dozen in box; No. M362, one in carton.

## DASH AND TROUBLE

No. M131

No. M132

Highly nickel plated combination dash and trouble lamp; attaches to dash; instantly converted to trouble lamp by removing lamp from base and inserting it into socket at one end of cord; other end of cord has plug attached to be inserted into socket on dash

Each

No. M131—Complete with 10 feet of cord and connecting pluga; weight 14 oz. ..... $ 3.00

Packed, one in carton.

### UNIVERSAL

Full nickel plated; to be attached to the dash; consists of a flanged metal case containing 10½ feet of insulated cord on a reel, stem with ball and socket joint, adjustable reflector and a 6-volt 4 candle power bulb, with enough insulated cord to attach to dry or storage batteries; by loosening the knurled nut lamp and enough cord can be withdrawn to reach any part of the car

Each

No. M132—Diameter of case at base 3⅜ inches; height 8½ inches; weight 20 oz. ..... $ 5 00

Packed, one in box

## TROUBLE

No. M137

No. M136

Each

No. M137—Black enameled wood holder and 3-inch reflector; fitted with 6-volt 4-candle power bulb; holder has hook in end; entire length 7 inches, 9½-foot cord, with terminals; weight 8 oz. ..... $ 1.50

No. M136—For garage use; natural finish wood holder, 5½ inches long; extra heavy wire guard and hook; 15-foot heavy insulated cable; 16-candle power, 110-volt lamp; weight 2¼ lbs. ..... 4.00

Packed, one in box

# CONVERTERS

## LAMP

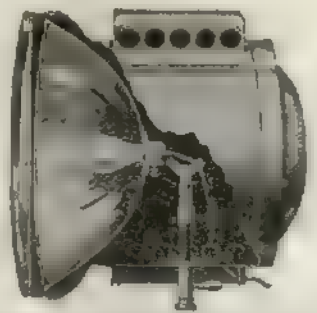
For converting oil lamps to electric; instantly and easily attached or detached; brass spring clip, heavily nickel plated; wired and fitted with candelabra base; socket adapted to any oil or tail lamp.

Each

No. M121—Complete without bulb; weight ¾ lb. ..... $ 0.40

Packed, one dozen in cardboard box.

## HEADLIGHT



Headlight converters; for converting gas lamps to electric; adapted to any standard gas lamp; not necessary to remove gas burner or deface lamp; outfit consists of spun copper reflector, extra heavily plated with pure silver and highly polished, and a candelabra base lamp socket wired complete, but without bulb.

Pair

No. M118—9-inch reflector; weight per pair 3 lbs. ..... $ 3 00
No. M119—10-inch reflector; weight per pair 3½ lbs. ..... 5 00

Packed, one pair in cardboard box.

# MOTORCYCLE SUNDRIES

## HEAD LAMPS

No. MC717

No. MC718

Body drawn from sheet steel and finished with three coats of enamel baked on; extra heavy catch and hinges; cast props, inside screw fastened and riveted; genuine ground Mangin mirror; removable, secured with screwed-in steel lugs, backed with asbestos; gas tip adjustable to focus.

Each

No. MC717 X-Ray; black and nickel, or full nickeled, diameter front 8 inches; diameter body 6½ inches; 5½-inch mirror; extreme length 6 inches; weight 3 lbs.....$ 5.50

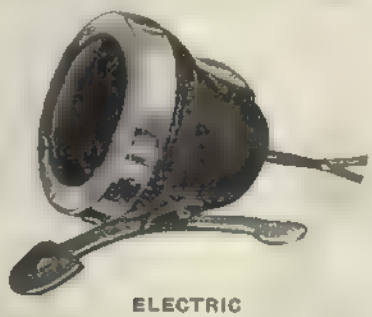
No. MC718—Reliable; black and nickel, or full nickeled; diameter front 8½ inches; diameter body 6½ inches; 6-inch mirror; extreme length 6⅝ inches; weight 4 lbs. . 7 00

## TAIL LAMPS

FAIRY

Each

No. MC719—Aluminum finish; red rear light; white spot light for license number; indestructible, light and attractive; weight ½ lb. .....$ 1.70



ELECTRIC

Each

No. MC720—Full nickel; diameter 2 inches; depth 2½ inches; fitted with 6-volt 2-candle power Mazda bulb; weight 1 lb..$ 2.00

## LAMP BRACKETS

Pair

No. MC714—Wald; wrought iron; will fit any motorcycle handle bar; complete with nuts and end clamps; weight per pair 2 lbs. .....$ 0.50

Packed, one pair in package

No. MC715

No. MC716

Pair

No. MC715—Standard; wrought iron, nickel plated; ½ inch in diameter; complete with nuts and end clamps to fasten to machine; weight per pair ¾ lb..... $ 0 60

No. MC716 Morse Universal; drop forged and highly nickel plated; neat in appearance; will fit any motorcycle handle bar and any standard lamp; weight per pair 2 lbs..... 1.00

Packed, No. M715, loose; No. M716, one in box

## MIRRORSCOPES

Convex mirror reflects clearly and distinctly every object within its range, metal frame; shaft has universal joint; clamps to handle bar.

Each

No. MC88 -Diameter of mirror 2⅜ inches; weight 4 oz.. $ 0 80

Packed, six in box.

## BATTERY CASES

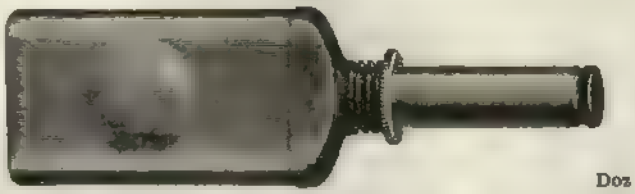
Made of steel; all seams electrically welded; finished in black enamel; with Universal mounting brackets; designed so that when two No. 705 flashlight batteries are used 3½ times the life of one battery can be secured; case allows use of one battery, if desired; so designed that wrong connection cannot be made; capacity (with average use), with one tube battery 3 months, with two tube battery one year

Each

No. MC597—Length, including posts, 8⅜ inches, heighth 3 inches; width 1⅝ inches; weight 1 lb..... . .....$ 2 00

# BICYCLE SUNDRIES

## OILERS



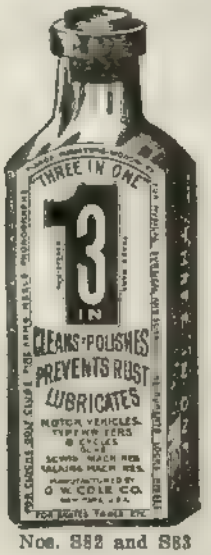
Doz

No. S80 Nickel plated; screw cap; weight per dozen 6 oz.....$ 0.90

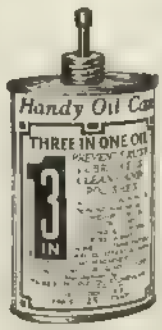
Doz.

No. S81—Perfect; brass; nickel plated; with cover; weight per dozen 10 oz. .....$ 3.40

## OILS




Nos. S82 and S83




No. S84

### 3 IN 1

For lubricating, cleaning, polishing and preventing rust.

Doz.

No. S82—2 in 1, small size bottles; weight per dozen 4 lbs.....$ 1.60
No. S83—3 in 1, large size bottles; weight per dozen 7 lbs.... 3.60
No. S84—3 in 1, in handy oil can with spout and handsome lithographed label; contains 3½ ounces; weight per dozen 4 lbs. ..... 4.00

Packed, No. S82, two dozen in box; No. S83, one dozen in box; No S84, one dozen in box.

### HOME

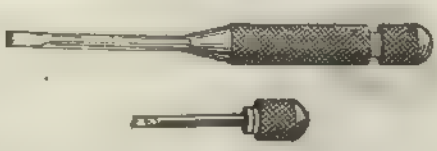
For lubricating, cleaning, polishing and preventing rust.

Doz.

No. S85—Home oil; 1½-ounce bottles; weight per dozen 4 lbs.$ 1.60
No. S86—Home oil; 3½-ounce bottles; weight per dozen 7½ lbs. ..... 3.60

Packed, No. S85, two dozen in box; No. S86, one dozen in box.

## SCREW DRIVERS



THE TWINS

Card

No. S660—Nickel plated; hardened steel; 2½ inches long; small driver telescopes into handle of larger; handle scored; can be carried in vest pocket; weight per card 14 oz.....$ 2.00

Packed, 20 on display card; 200 in carton

## WRENCHES

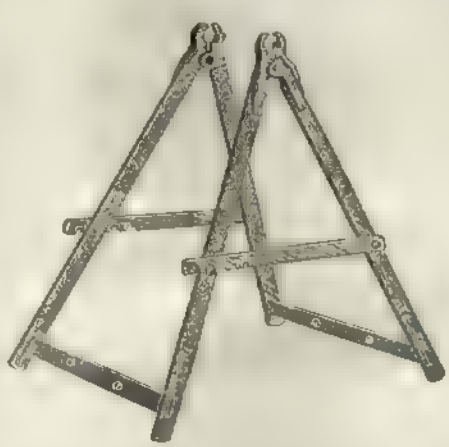
Doz.

No. S431—Forged from boiler plate; 5¼ inches long; ¼-inch jaw; tempered; nickeled, but not polished; weight per dozen 4 lbs. .....$ 2 20

## BICYCLE STANDS

Doz.

No. S100S—Black enameled steel; height 18 inches; width at base 9¼ inches; motorcycle type; fastens to rear axle, swings back and catches on mud guard; complete with mud guard hook; when in use it can be locked with a padlock; weight 1¾ lbs. .....$18 00
No. S101S—Climax; black enameled steel; height 15 inches, width at base 9¼ inches; fastens to rear axle; complete with mud guard hook; weight per dozen 25 lbs..... 6.00
No. S102S Climax; blue enameled; otherwise same as No S101S ..... 7.20

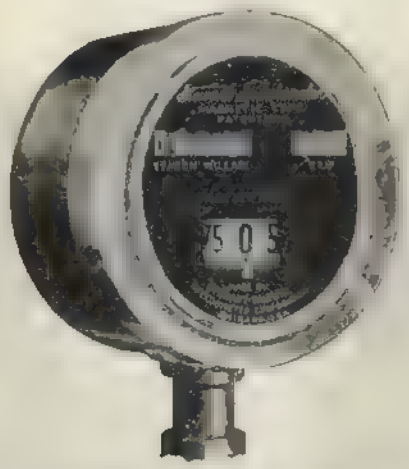


Doz.

No. S155—Myers' adjustable; height 15 inches, width at base 11 inches; side uprights and cross bar supports of ⅞x⅝-inch aluminum finish steel; will hold any bicycle securely and rigidly; also used for home training and beginners; weight per dozen 53 lbs.....$15 00

# MOTORCYCLE SUNDRIES

## SPEEDOMETERS



### STEWART MAGNETIC TYPE

Same high quality of material and workmanship that enters into the construction of the instrument for automobiles, of admirable proportion, highly finished and very compactly constructed, black enamel case with nickel plated bezel, heavy French plate glass cover the Odometer employs a plain, hard bronze gear train positively driven the season Odometer registers 100,000 miles and repeats, the trip register will record up to 100 miles and can be rapidly reset at any time to any tenth of a mile

| | | Each | |
|---|---|---|---|
| No. MC5045 | Model 104; 3 inch dial, to be attached to rear wheel hub on a solid cast sprocket, fibre pinion securely attached to frame of machine in such a way that it cannot work loose unaffected by vibration or road shocks, weight 2 lbs | $12.00 | $16.00 |
| No. MC5047 | Model 105, 3 inch dial, to be attached to front wheel hub by a solid tube driving shaft lower bearing bracket attached only to the front wheel axle, the pinion being suspended in its position on the sprocket by the solid tube shaft, not affected by any vibration or springyness; no binding between pinion and sprocket, handle bar clamp allows speedometer to be held in any position; weight 12 lbs | $12.00 | 16.00 |

## HORNS

Full, deep tone, best quality material; highly nickel plated; high quality bulb.

| | | Each |
|---|---|---|
| No. MC723 | Bell 4½ inches in diameter; weight ¾ lb | $ 2.30 |

### MAXO II, ELECTRIC

Gives sharp, abrupt, penetrating signal; takes very little battery current for its operation special lever type push button which is to be mounted on the handle bar close to the grip, thus allowing quick action without losing control of the motorcycle

| | | Each |
|---|---|---|
| No. MC596 | Black enameled, bell 2⅜ inches in diameter; nickel plated bracket and push button with 3¾ feet of black cord and battery connections, current required from ½ to 2 amperes, according to adjustment; weight 2¼ lbs | $ 5 20 |

Packed, one in box.

### TWO-TONE

Two tones, loud and penetrating; best quality of material; highly nickel plated; good quality rubber bulb.

| | | Each |
|---|---|---|
| No. MC725 | Bells 1⅛ and 1⅞ inches in diameter; entire length 14 inches; weight ¾ lb | $ 2.80 |

Packed, one in box.

No. MC727

No. MC726

| | | Each | |
|---|---|---|---|
| No. MC727 | Klaxon, operates on the principle of a steel diaphragm set in violent vibration by a toothed wheel, by means of a train of gears that attain high speed under pressure on the push rod; weight 7 lbs | $ 7.50 | $11.26 |
| No. MC726 | Long Horn, black and nickel, hand actuated mechanical horn, volume of warning note is regulated by the pressure on the plunger knob, complete with bracket, weight 5 lbs | $5.00 | 7.50 |

# MOTORCYCLE SUNDRIES

## GAS LAMP BURNERS

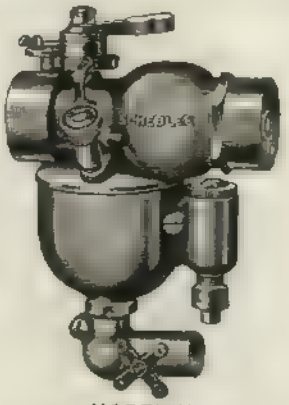
No. M791

No. M792

| | Doz. |
|---|---|
| No. MC791—Alco Cyco; ⅜-foot size; genuine German lava tip, mounted on nickel plated brass base; weight per dozen ½ lb | $ 2 00 |
| No. MC792 Alco Hexo, ⅜-foot size pure German lava tip, mounted on nickel plated brass base, turned from solid rod; with hexagon feature base; weight per dozen ⅞ lb | 2.80 |

Packed, one in box; one dozen in carton.

## SCHEBLER CARBURETORS



### MODEL H

Designed to meet requirements where great flexibility and perfect control is desired; supply of gasoline is controlled by the cam which gives an adjustment on low, intermediate and high speeds; air bend is so attached to the constant air opening that it can be turned to any convenient angle in order to draw warm air off the cylinders.

| | Each |
|---|---|
| No. MC745 ¾-inch standard iron pipe size, air bend without shutter; weight 4¾ lbs. | $15.00 |

## SPARK PLUGS

No. M409

No. M400

No. M405

No. M416

No. M427

No. M403

No. M410

### ELECTRIC CITY

Each

No. M409—Metric, equipped that the chance of leakage or loosening of terminals is reduced to a minimum, finest quality porcelain, carefully annealed; very easily cleaned, being made on the same general principles as the Rajah, porcelains of the two plugs are interchangeable weight 3½ oz ..... $ 0.80

No. M409P—Extra porcelains for No. M409 ..... .40

### SOOT-PROOF

Each

No. M400—Metric, first carbon and oil-proof plug on the market, guaranteed to give satisfaction; insulator made of hand turned porcelain; substantial nickel spark points; weight 3½ oz ..... $ 0 70

No. M400P—Extra porcelains for No. M400 ..... .36

### CHAMPION

Each

No. M405—Metric; soot-proof; body is of steel and bushing is of brass; every plug carefully tested, fine black finish which is rust-proof; weight 4 oz. ..... $ 0 80

No. M405P—Extra porcelains for No. M405 ..... 50

### SPLITDORF

Each

No. M416—Metric; insulation is a combination of porcelain and mica; central electrode tapered in form first wrapped in insulation of mica, then set in center member of plug base and the whole is inserted in porcelain outer covering, weight 4 oz ..... $ 1.20

### RED HEAD

Each

No. M427 Metric, composed of three parts, shell, bushing and electrode, electrode may be taken out for cleaning without removing shell from cylinder, porcelain guaranteed not to crack from heat, weight 4 oz ..... $ 0 80

### MONARCH MICA

Each

No. M403 Metric; core twice the thickness of ordinary plug, so that heat, oil and extreme high tension of magneto has no ill effect on it; weight 3½ oz. ..... $ 0 90

### RAJAH

Each

No. M410—Metric; so equipped that chance of leakage or loosening of terminals is reduced to a minimum; carefully annealed, imported porcelain, easily cleaned and is fitted with instantaneous snap terminal; weight 4 oz ..... $ 1 50

No. M410P—Extra imported porcelains for No. M410 ..... .76

## PLAYING CARDS

### SPANISH OR MONTE

No. S71S

### PINOCHLE

No. S300P

SPANISH OR MONTE — Gross

**No. S71S** Los Leones; genuine parchment stock; size 2 7/16 x 3 7/16 inches; pack contains 48 cards; weight per dozen packs 2⅝ lbs. ..... $72 00

PINOCHLE — Gross

**No. S300P**—Enameled; pack contains 48 cards; weight per dozen packs 2⅓ lbs ..... $48 00

Packed, one dozen packs in box.

## POKER SETS

Doz. Sets

**No. S10PS**—Contains one pack Congress gold edged cards; 100 red, white and blue poker chips assorted, put up in snap cover black leather case; weight per set 12 oz. ..... $20 00

Packed, one set in cardboard box.

## CHESSMEN

Doz. Sets

**No. S9C**—Chessmen; hardwood; black and white; put up in a strong wood box; weight per dozen sets 7 lbs. ..... $ 9 00

## CHECKERS

No S600

No. S700

No. S800

Doz Sets

**No. S600**—Star; hardwood; black and white; 1⅛-inch; 30 pieces in a paper box; weight per dozen sets 4 lbs. ..... $ 0 80

**No. S700**—Corona; embossed; hardwood; black and red, 1¼ inch; 30 pieces in a strong fancy paper box; weight per dozen sets 4 lbs. ..... 1.50

**No S800** Crown; composition embossed; red and black; 1¼-inch, 36 pieces in a strong paper box; weight per dozen sets 4 lbs. ..... 3.60

## POKER CHIPS

Nos. S2PC and S3PC

No. S4PC

PLAIN — Thousand

**No. S2PC**—Plain; composition; 1⅛-inch; weight per box 1⅝ lbs. ..... $ 7 00

**No. S3PC**—Noiseless; fibre paper; unbreakable; 1⅛-inch; weight per box ⅞ lb. ..... 10.50

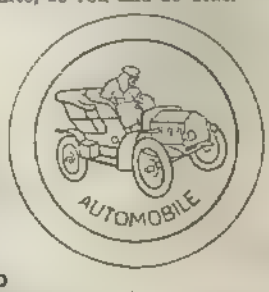
Packed, 100 in box; assorted, 50 white, 25 red and 25 blue.

EMBOSSED

When ordering, specify design wanted. — Thousand

**No. S4PC**—Embossed; composition; assorted designs; 1⅛-inch; weight per box 1⅝ lbs. ..... $ 9.00

Packed, 100 in box; assorted 50 white, 25 red and 25 blue.



ENGRAVED

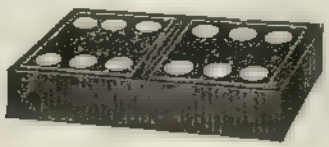
When ordering, specify design wanted. — Thousand

**No. S5PC**—Engraved; composition; assorted designs; 1⅛-inch; weight per box 1⅝ lbs. ..... $12.00

Packed, 100 in box; assorted 50 white, 25 red and 25 blue.

## DOMINOES

No. S100D



No. S200D

Doz. Sets

No. S100D—Ebon; black wood, with white spots; 28 pieces in a paper box; weight per dozen sets 2½ lbs.....$ 0.80

No. S200D—U. S. A.; black wood; with white spots; American flag printed on back; 28 pieces in a paper box; weight per dozen sets 5 lbs..... 1.60

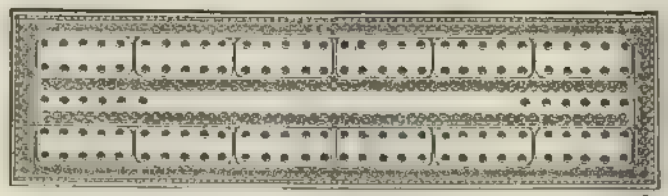
Doz. Sets

No. S300D—Crown; black wood; with white spots; fine finish; 28 pieces in neat wood frame box; weight per dozen sets 10 lbs. .....$ 4.00

Doz. Sets

No. S500D—Double nine Express; black wood with white spots; engine painted on back; 56 pieces in a paper box; weight per dozen sets 12 lbs.....$ 4.00

## CRIBBAGE BOARDS



Doz.

No. S1CB -Flexible, russet skirting leather; doubled and stitched; size 3x11 inches; weight per dozen 3¾ lbs .....$12 00

## DICE CUPS

No. S10DC No. S20DC No. S30DC

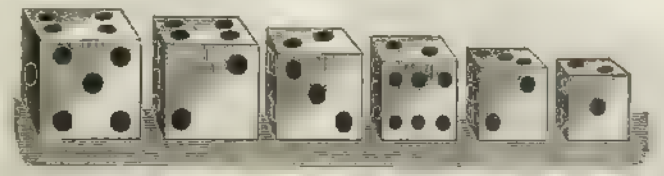
Plain; best quality; heavy leather; hand sewed.

| | Doz. |
|---|---|
| No. S10DC—2¾-inch; weight per dozen 1½ lbs ..... | $10 00 |
| No. S20DC—3 -inch; weight per dozen 1⅞ lbs ..... | 11 50 |
| No. S30DC—3½-inch; weight per dozen 2¼ lbs ..... | 13 00 |

Embossed; best quality; heavy leather; hand sewed

| | Doz. |
|---|---|
| No. S110DC—2¾-inch; weight per dozen 1½ lbs. .... | $10.50 |
| No. S120DC—3 -inch; weight per dozen 1⅞ lbs. ..... | 12.00 |
| No. S130DC—3½-inch; weight per dozen 2¼ lbs .... | 13 50 |

## DICE

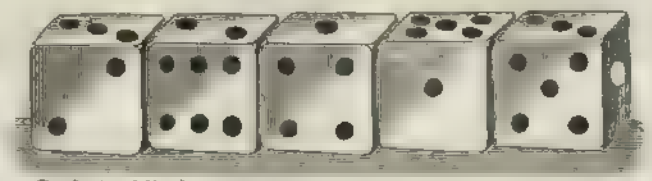


Regular white bone; square corners

| Nos. | S3WD | S4WD | S5WD | S6WD |
|---|---|---|---|---|
| Size, inches | 3/8 | 14/32 | 15/32 | 4/8 |
| Average weight per 100, lbs. | 1 | 1 | 1 | 1¼ |
| Hundred | $1 00 | 1.20 | 1.40 | 1 60 |

| Nos. | S7WD | S8WD | S9WD | S10WD |
|---|---|---|---|---|
| Size, inches | 17/32 | 18/32 | 5/8 | 21/32 |
| Average weight per 100, lbs | 1¼ | 1¼ | 1½ | 1½ |
| Hundred | $2 20 | 3.50 | 4 50 | 6 50 |

Packed, 100 in cardboard box



Perfect white bone; square corners; selected and polished

| Nos. | S7P | S8P | S9P |
|---|---|---|---|
| Size, inches | 17/32 | 18/32 | 5/8 |
| Average weight per 100, lbs. | 1 | 1¼ | 1½ |
| Hundred | $2.80 | 3.60 | 4 50 |

Packed, 100 in cardboard box.

Zylonite; composition; white; square corners.

| Nos. | S11Z | S12Z | S13Z | S14Z | S15Z |
|---|---|---|---|---|---|
| Size, inches | 14/32 | 4/8 | 18/32 | 5/8 | 22/32 |
| Average weight per 100, lbs. | ⅞ | 1 | 1¼ | 1½ | 1¾ |
| Gross | $5.50 | 6.00 | 6.50 | 8.00 | 10.00 |

Packed, one-twelfth gross in cardboard box; one gross in carton.

Celluloid ivory; square corners.

Set

No. S16D—Size ⅝-inch; weight per dozen sets 1⅛ lbs.....$ 0 80

Packed, five in set; one set in cardboard box; twelve sets in carton

Transparent celluloid; square corners.

Set

No. S26S—Saffron; size ⅝-inch; weight per dozen sets 1⅛ lbs .$ 0.90
No. S26G—Green; size ⅝ inch; weight per dozen sets 1⅛ lbs... .90
No. S26M -Magenta; size ⅝-inch; weight per dozen sets 1⅛ lbs. .90

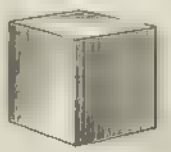
Packed, five in set; one set in cardboard box; twelve sets in carton.

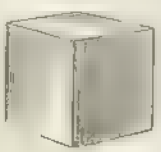
Celluloid poker; colored card faces

Set

No. S17D—Size ⅝-inch; weight per dozen sets 1 lb.....$ 1.00

Packed, five in set; one set in cardboard box; twelve sets in carton.





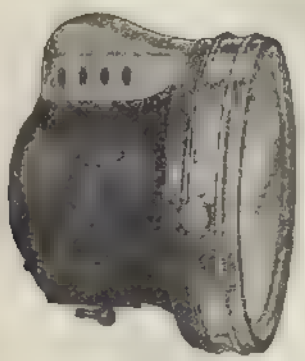
Perfect blank; white bone; square corners; selected and polished

| Nos. | S8PB | S9PB |
|---|---|---|
| Size, inches | 18/32 | 5/8 |
| Average weight per 100, lbs. | 1⅜ | 1⅝ |
| Hundred | $3.60 | 4.50 |

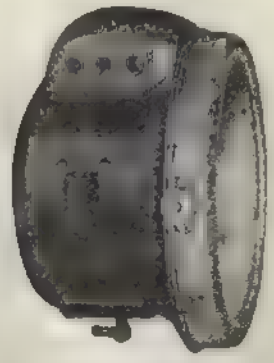
Packed, 100 in cardboard box.

# AUTOMOBILE LAMPS

## HEAD



No. M4



No. M6

Nos. M308 and M309

Victor Gas; good quality, made of heavy brass, brazed and riveted throughout, fitted with lens mirrors, adjustable focus burners; hinges, latch and brackets are heavy and secured firmly to lamp; nicely finished throughout.

| | Each |
|---|---|
| No. M4 Black and brass; diameter 9 inches; 7 inches between brackets, weight 6¼ lbs. | $ 7.00 |
| No. M5—Black and nickel; otherwise same as No. M4 | 7.00 |

Victor Gas close coupled good quality, made of heavy brass; 8 inches between brackets; 7¾ inches in depth; made on conservative lines and although much shorter than the ordinary barrel lamp, is not of the extreme type, nicely finished throughout, excellent lighting qualities.

| | Each |
|---|---|
| No. M6 Black and brass; 9½-inch front; 7-inch lens mirrors; weight 6 lbs. | $ 8.00 |
| No. M7—Black and nickel otherwise same as No. M6 | 8 00 |

Packed, one in cardboard box.

Electric, bullet head style; Ediswan sockets and bulbs, body drawn from one piece of heavy brass, extra heavy silver plate coated reflector

| | Each |
|---|---|
| No. M308 Black and brass; diameter 9½ inches, depth 6¼ inches; weight 4½ lbs | $ 6 50 |
| No. M309—Black and nickel; otherwise same as No. M308 | 6.50 |

Packed, one in box

## SIDE

No. M10

Nos M306 and M307

Victor oil; square, excellent in design and construction; made of heavy brass for medium sized touring cars; beveled plate glass on two sides; silvered reflector.

| | Pair |
|---|---|
| No. M10—Black and brass; 4x4-inch glass; height 10¾ inches; weight 4 lbs. | $ 7 50 |
| No. M11—Black enameled; nickel door; otherwise same as No. M10 | 7 50 |

Packed, one pair in cardboard box.

Electric; bullet head style, Ediswan sockets and bulbs, body drawn from one piece of heavy brass; extra heavy silver plate coated reflector; fitted with combination side props for round or flat brackets.

| | Pair |
|---|---|
| No. M306—Black and brass; diameter 6 inches; depth 4½ inches; weight per pair 7½ lbs | $ 7 50 |
| No. M307 Black and nickel otherwise same as No. M306 | 7 50 |

Packed, one pair in box

DRIVING

Neverout oil; made entirely of heavy drawn brass; all parts riveted or clinched; no solder; burns 20 hours with one filling; patent insulated safety reservoir, prevents soiling of hands or gloves; extra large red side and rear signals, riveted bail, with rail or panel brackets as desired.

| | Pair |
|---|---|
| No. M435—Polished brass; diameter 4¾ inches; height over all 9¼ inches, complete with brackets weight 1½ lbs | $10 00 |
| No. M436—Nickel plated otherwise same as No. M435 | 10 00 |
| No. M437—Gun metal finish otherwise same as No. M435 | 10 00 |

Packed, one in carton

# HORN ACCESSORIES

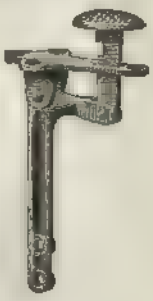
## HORN TUBING

Flexible brass tubing, made up complete, ready for use, one end finished in reed chamber with standard thread for screwing on horns of any regular make, other end provided with screw for attaching bulb and double clip for attaching to steering post or such part of the car as may be desired.

| | Each |
|---|---|
| No. M215—½x40 inches; complete with clamps and screws; weight 1 lb. | $ 1.20 |
| No. M216—½x50 inches; complete with clamps and screws; weight 1¼ lbs. | 1.40 |

## FOOT PEDALS

No. M250



No. M255

No. M252

### BARCO

This foot pedal can be used to operate a muffler cut-out, or any style of horn or whistle, the plate requires but little space on the floor of the car and is easily applied.

| | Each |
|---|---|
| No. M250—Barco Foot Pedal; black enameled, weight ½ lb. | $ 0.35 |

### RADIUM

This heel pedal, or heel button as it is usually called, is the simplest locking pedal on the market, it has many advantages, particularly because the leverage parts are underneath.

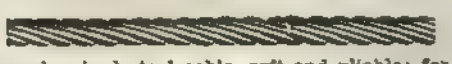
| | Each |
|---|---|
| No. M255—Radium Foot Pedal; black enameled; weight 8 oz. | $ 0.40 |

### GEMCO

All exposed parts of polished brass, balance of malleable iron; easily applied to car by boring hole for rod.

| | Each |
|---|---|
| No. M252—Weight 1 lb. | $ 0 90 |

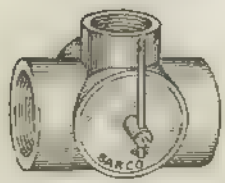
## WIRE CABLE



Finest quality galvanized steel cable, soft and pliable; for use in connection with horn, valve, muffler, cut-outs, brakes, etc.

| | Foot |
|---|---|
| No. M260—3/16 inch in diameter | $ 0 05 |
| No. M261—¼ inch in diameter | .06 |
| No. M262—5/16 inch in diameter | .08 |

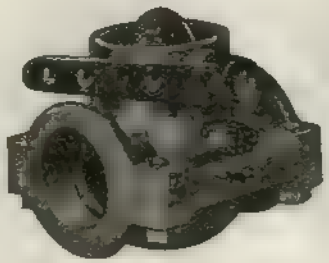
## BARCO EXHAUST HORN VALVES




The feature of this valve is an absolutely open passage when the valve is open, offering no obstruction to the exhaust pipe; gas closes the horn out-let perfectly; it is self-cleaning; unaffected by soot or heat; consists of only three parts, and can be readily taken apart without removing from exhaust pipe.

| | |
|---|---|
| No. M235—To fit 1 -inch iron pipe, threaded; weight 2 lbs. | $ 2.00 |
| No. M236—To fit 1¼-inch iron pipe, threaded; weight 2 lbs. | 2.00 |
| No. M237—To fit 1½-inch iron pipe, threaded; weight 2½ lbs. | 2.20 |
| No. M238—To fit 2 -inch iron pipe, threaded; weight 3⅞ lbs. | 2.50 |
| No. M239—To fit 1⅝-inch steel tubing, not threaded; weight 2 lbs. | 2.00 |
| No. M239½—To fit 1⅝-inch steel tubing, not threaded; weight 2 lbs. | 2.00 |
| No. M240—To fit 1½-inch steel tubing, not threaded; weight 2 lbs. | 2.20 |
| No. M241—To fit 1¾-inch steel tubing, not threaded; weight 2½ lbs. | 2.20 |
| No. M242—To fit 2-inch steel tubing, not threaded; weight 3⅞ lbs. | 2.50 |
| No. M243—To fit 2⅛-inch steel tubing, not threaded; weight 4⅛ lbs. | 2.50 |
| No. M243½—To fit 2¼-inch steel tubing, not threaded; weight 4⅞ lbs. | 2.50 |
| No. M243¾—To fit 2½ inch steel tubing, not threaded; weight 5⅛ lbs. | 2.50 |

## GEMCO CUT-OUT VALVES



The Gemco Cut-Out is designed to be attached to the muffler pipe at any convenient point. It is attached by merely cutting a hole in the pipe to coincide with the out-let in the cut-out and then clamping the cut-out around the pipe. The valve is butterfly-type and fits closely when closed, avoiding the leakage and consequent noise common to many cut-outs of this type.

| | Each |
|---|---|
| No. M244—To fit 1¼-inch iron pipe; weight 3 lbs. | $0 90 |
| No. M245—To fit 1½-inch iron pipe; weight 3 lbs. | 90 |
| No. M246—To fit 1¼-inch steel tubing; weight 1½ lbs. | 90 |
| No. M246½—To fit 1⅝ inch steel tubing; weight 1½ lbs. | 90 |
| No. M247—To fit 1½-inch steel tubing, weight 1½ lbs. | 90 |
| No. M248—To fit 1¾-inch steel tubing, weight 2½ lbs. | 1.20 |
| No. M248½—To fit 1⅞-inch steel tubing; weight 2¾ lbs. | 1.20 |
| No. M249—To fit 2 -inch steel tubing; weight 2⅞ lbs. | 1.20 |
| No. M249¼—To fit 2⅛-inch steel tubing, weight 3¼ lbs. | 1.50 |
| No. M249½—To fit 2¼-inch steel tubing, weight 3½ lbs. | 1.50 |

NOTE—The size of an iron pipe is determined by measuring the inside diameter of the pipe; steel tubing sizes are outside diameter of the tubing.

# Violincellos

Prices Quoted Do Not Include Bows.

## WITH PEG HEADS.

| No. | | Each |
|---|---|---|
| 122 | Reddish brown color, good quality | $25.90 |
| 132 | Reddish brown color, better quality | 29.00 |
| 312 | Light red color wood quality inlaid edges | 37.35 |
| 322 | Reddish brown color, good quality, polished ebony finger-board | 44.85 |

**THREE-QUARTER SIZE.**

| | | |
|---|---|---|
| 332 | Three quarter size reddish brown color polished inlaid edges, superior quality | 42.35 |
| 382 | Genuine Mittenwald, Stradivarius model medium, brown color, ebony pegs and tail-piece, excellent workmanship | 60.25 |

**ONE-HALF SIZE**

| No. | | Each |
|---|---|---|
| 212 | Genuine Mittenwald Stradivarius model, medium brown color, ebony pegs and tailpiece, excellent workmanship | 60.95 |

## WITH PATENT HEADS.

| | | |
|---|---|---|
| 2012 | Reddish brown color, fair quality | $30.25 |
| 2032 | Medium brown color, polished, good quality | 35 25 |
| 2132 | Reddish brown color, inlaid edges, better quality brass plates | 42.55 |
| 2402 | Dark brown color, fine quality, inlaid edges, ebony finger board, brass plates | 45.65 |
| 2382 | Dark brown color, inlaid edges, superior quality, brass plates | 49.90 |
| 3002 | Genuine Mittenwald, Stradivarius model, red-brown color, fine quality, brass plates, adjustable brass end pin | 79.00 |
| 2652 | Stradivarius model medium red color, highly polished, ebony trimmed, brass patent heads | 194.85 |

# Double Bass Viols

## DOUBLE BASS WITH PATENT HEADS.

Prices Quoted Include Bows.

**ONE-QUARTER SIZE.**

| No. | | Each |
|---|---|---|
| 582 | 4 strings, dark red, shaded, polished, good quality | $74.15 |

**HALF SIZES.**

| No. | | Each |
|---|---|---|
| 602 | 3 strings, dark red, shaded, polished, good quality | $72.10 |
| 612 | 4 strings, dark red, shaded, polished, good quality | 76.25 |
| 712 | 4 strings, dark red, shaded, polished, better quality, with ebony fingerboard | 88.30 |
| 652 | 4 strings, dark red, shaded, polished, inlaid edges, swelled back, fine quality | 119.60 |

**THREE-QUARTER SIZES.**

| No. | | Each |
|---|---|---|
| 622 | 3 Strings, dark red, shaded, polished, good quality | $78.35 |
| 632 | 4 strings, dark red, shaded, polished, good quality | 81.50 |
| 732 | 4 strings, dark red, shaded, polished, better quality, with ebony fingerboard | 96.10 |
| 672 | 4 strings, dark red, shaded, polished, inlaid edges reinforced sides, fine quality | 102.85 |
| 743 | 4 strings, dark red, shaded, polished, inlaid edges, fine quality, with ebony fingerboard | 114.80 |
| 692 | 4 strings, dark red, shaded, polished inlaid edges swelled back, brass patent heads, fine quality | 130.45 |
| 762 | 4 strings, dark brown color, swelled back, ebony fingerboard and tail-piece, extra fine quality, brass patent head. For artists | 264.30 |

**Full (4/4) Size.**

| No. | | Each |
|---|---|---|
| 762 | 4 strings, dark brown amber, shaded, inlaid edges, swelled back reinforced sides, brass patent heads Excellent quality Best ebony fingerboard | 315.85 |

**WE DO NOT WARRANT DOUBLE BASSES AGAINST CRECKING OR WARPING.**

# Violin Bows

| No. | | Each |
|---|---|---|
| 2552 | Maple, red painted, black frog, bone button | $0.35 |
| 2582 | Maple, imitation snakewood, ebony frog inlaid dot bone slide and button | .95 |
| 2592 | Maple, black finished, bone frog, inlaid eye, bone slide and button | 1.20 |
| 2852 | Maple, imitation snakewood, ebony frog, inlaid dot, pearl slide, German silver button | 1.28 |
| 2632 | Brazil wood, nutria color, ebony frog, inlaid dot, pearl slide, bone button | 1.60 |
| 2642 | Cherry finish stick, ebony frog, German silver full lined pearl slide, pearl eye, button of German silver and ebony, silvered grip | 1.75 |
| 602 | Brazil wood, imitation iron wood, ebony frog, inlaid dot, pearl slide, German silver capped button | 2.00 |
| 622 | Brazil wood, imitation iron wood, ebony frog, German silver lined, German silver capped button | 2.30 |
| 292 | "Fourte," Brazil wood, octagon stick, ebony frog, pearl inlaid eye, pearl slide, German silver lined, German silver button | 2.70 |
| 462 | "Fourte" model, brazil wood, octagon stick, ebony frog, full German silver lined, large pearl eye, German silver bound, pearl slide, German silver and ebony button, full leather grip with gilt stamped edges | 3.05 |
| 6602 | Remenji," Brazil wood, dark color, ebony frog, double pearl eye pearl slide, full German silver lined, German silver button, leather grip | 4.30 |
| 332 | Brazil wood, imitation snakewood, imitation ivory frog and button double pearl eye, German silver Lined | 3.70 |
| 352 | Genuine snakewood, ivory frog, double pearl eye, German silver lined, ivory button | 7.20 |

## HALF SIZES.

| No. | | Each |
|---|---|---|
| 1182 | Beechwood, cherry finish, ebony frog pearl slide and eye, German silver and ebony button | $1.25 |
| 242 | Brazil wood, ebony frog, leather grip, inlaid dot, pearl slide, German silver button better quality | 1.85 |
| 212 | "L. Wenzel," Brazil wood, ebony frog, pearl slide, pearl eye, full German silver lined German silver button | 2.25 |
| 252 | Pernambuco wood, ebony frog, pearl eye, full German silver lined, pearl slide, German silver button | 4.35 |
| 282 | Pernambuco wood ebony frog, pearl eye, full German silver lined, pearl slide, extra fine quality | 6.60 |

## THREE-QUARTER SIZES.

| | | |
|---|---|---|
| 1202 | Beechwood, cherry finish, ebony frog, pearl slide and eye, German silver and ebony button | $1.25 |
| 362 | Brazil wood, ebony frog, leather grip, inlaid dot, pearl slide, German silver button, better quality | 2.00 |
| 212 | "L. Wenzel" Brazil wood ebony frog, pearl slide, pearl eye, full German silver lined, German silver button. | 2.45 |
| 272 | Pernambuco wood, ebony frog, full German silver lined, pearl slide German silver button | 4.30 |
| 382 | Pernambuco wood, ebony frog, full German silver lined, pearl slide, extra fine quality | 6.90 |

# Guitars

| No. | | Each |
|---|---|---|
| 12492 | Birch back and sides, enlarged model, rosewood finish, imitation mahogany neck, walnut fingerboard, pearl position dots, inlaid sound-hole, strung with steel strings, broad strip down center of back | $ 8.15 |
| 12582 | Grand concert size, same description as No. 12492 | 10.50 |
| 12502 | Birch back and sides, enlarged model, mahogany finish, imitation mahogany neck, walnut fingerboard, pearl position dots, inlaid sound-hole, nickel plated tailpiece, fancy colored wide stripe on back, strung with steel strings | 8.15 |
| 4802 | Mahogany finish back and sides, hand polished, spruce top, fancy colored wood inlaying around sound-hole, fancy colored stripe on back, neck mahogany finish, fingerboard with pearl position dots, our own nickel plated patent head, No. 30 metal tailpiece, nickel plated, strung with steel strings | 9.85 |
| 4852 | Same description as No. 4802, but edge inlaid and bound with celluloid | 10.65 |
| 4902 | Same description as No. 4802, but fine hand polish, and edge inlaid and bound with celluloid | 11.95 |
| 5052 | Dark mahogany finish back and sides, hand polished, spruce top, fancy colored wood inlaying around sound-hole, edge inlaid with fancy colored woods and bound with celluloid, fancy colored stripe on back, neck mahogany finish, fingerboard with pearl position dots, nickel plated patent head, No. 30 metal tailpiece, nickel plated, strung with steel strings, finely polished | 13.15 |
| 6152 | Birch back and sides, dark mahogany finish, hand polished, spruce top, broad, fancy colored wood inlaying around sound-hole and edge top and back edges bound with celluloid, fancy colored stripe on back, neck mahogany finish, fingerboard with pearl position dots, nickel plated patent head, No. 30 metal tailpiece, nickel plated, strung with steel strings, finely polished | 14.00 |
| 6202 | Beautifully figured birch back and sides, dark mahogany finish, hand polished, spruce top, fancy, colored wood inlaying around sound-hole, corded inlaying on edge, top and back edges bound with celluloid, fancy inlaid stripe in back, neck mahogany finish, veneered headpiece, rosewood fingerboard, pearl position dots, nickel plated patent head, No. 35 metal tailpiece, nickel plated, strung with steel strings, finely polished | 18.80 |
| 9702 | Dark mahogany finish back and sides, hand polished, spruce top, fancy colored wood inlaying around sound-hole and edges and down center of back, top and back edges bound with celluloid, ebonized fingerboard with pearl position dots, brass patent heads, ebonized bridge, strung with steel strings | 17.15 |
| 6102 | Same description as No. 6152, three-quarter size, strung with steel strings on metal tailpiece No. 30 | 14.00 |

# Guitar Outfits

**1002** This Outfit contains one of our ever popular No. 12502 Guitars, which is made of solid birch, back and sides; enlarged model, fine mahogany neck, solid walnut fingerboard with pearl position dots; inlaid sound-hole, nickel plated tailpiece, and strung with best steel strings; also one of our high-grade canvas cases and a handsomely nickel plated Capo d'Astro, a guitar thumb pick, one of our guitar fingerboard charts by the use of which a player can easily master all notes and positions on the fingerboard; 1 complete Warner's Instructor, which not only contains the elementary instructions for playing the guitar but also contains a number of easy and popular selections. A set of best grade steel strings, one of our guitar tuning pipes with 6 pipes, E, B, G, D, A, and E which makes guitar tuning merely a matter of a few seconds with the youngest player ..... $14.25

**1012** In this Outfit we include our popular "Jupiter" Guitar, No. 5652 finished in dark mahogany, hand polished, with spruce top, fancy colored wood inlaying around sound-hole, edges inlaid with fancy colored wood and bound with celluloid; handsome mahogany finished neck, fingerboard inlaid with pearl position dots, fitted with our own patent heads and tailpiece strung with the best grade steel strings. The case and all other sundries included with this Outfit are the same as described in Outfit No. 1002 ..... 19.95

**1022** Outfit No. 102 contains our handsome standard size "Lakeside" Guitar, No. 6202, which has a beautifully figured birch back and sides, finished in a dark mahogany, elegantly hand polished with spruce top, fancy colored wood inlaying around sound-hole. Corded inlaying around edge, and both top and back edges bound with celluloid, fancy inlaid stripe down the center of the back. The neck is finished in fine mahogany with neatly veneered head-piece, solid rosewood fingerboard, pearl position dots, fitted with our own nickel plated patent head and tailpiece strung with best grade steel strings. The case and all other sundries included in this Outfit are the same as described in Outfit No. 1002 ..... 24.45

**1032** We include in Outfit No. 1032, our handsome up-to-date "Lakeside" Guitar No. 6182. This is a particularly attractive instrument being made of the finest quartered oak, back and sides, beautifully hand polished, with spruce top, broad colored wood inlaying around sound-hole top and back edges inlaid with fancy colored wood and bound with white celluloid; broad strip of fancy colored wood inlaying down the center of the back, fine mahogany finished neck, veneered headpiece, solid rosewood fingerboard, pearl position dots, and fitted with our own nickel plated patent head, strung with best grade steel strings. This is a particularly handsome looking instrument and one that is sure to catch the eye of any purchaser. The case and all other sundries included in this Outfit are the same as described in Outfit No. 1002 . 25.50

# Banjos

**10 INCH.**

| No. | | Each |
|---|---|---|
| 11982 | Nickel shell, wood lined, stained imitation cherry neck, German silver raised frets, 7 nickel-plated hexagon brackets, calf skin head | $6.95 |
| 11982 | Same description as No. 11982, with 9 nickel-plated hexagon brackets | 8.00 |
| 6072 | Nickel shell, wood lined calfskin head, 7 nickel-plated hexagon brackets, single wired edge shell, raised frets, position dots, imitation mahogany finish | 8.20 |
| 6082 | Same description as No. 6072, with 9 nickel-plated brackets | 8.65 |

**11 INCH.**

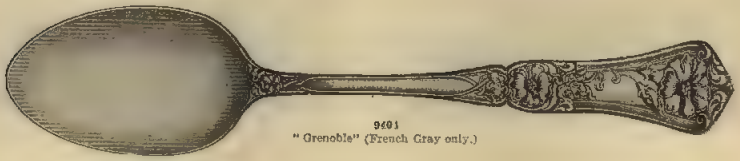
**Nickel Shells, Wood Lined, Calfskin Heads.**

| No. | | Each |
|---|---|---|
| 11062 | 13 nickel-plated hexagon brackets, raised frets, birch neck | $ 8.90 |
| 11102 | 17 nickel-plated hexagon brackets, raised frets, birch neck | 9.85 |
| 11112 | 25 nickel-plated hexagon brackets raised frets, birch neck | 10.90 |
| 11922 | 25 nickel-plated hexagon brackets, raised frets, birch neck wired edge | 11.55 |
| 11242 | 25 nickel-plated hexagon brackets, raised frets, birch neck, wired edge | 13.40 |
| 11252 | Same as No. 11242 with white celluloid pegs | 14.15 |

**DOUBLE WIRED EDGE.**

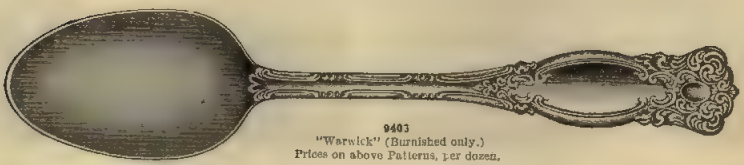
| No. | | Each |
|---|---|---|
| 8252 | Nickel-plated, double wired shell, 10½ inches in diameter, 3 octave scale, 25 hexagon brackets, rabbeted top band, calfskin head, mahogany finished neck, heavy ebony finger board and head piece, pearl position dots black pegs, nickel-plated tailpiece | $19.05 |
| 8272 | Same description as No. 8252, with 31 brackets | 21.35 |

# WM. A. ROGERS — Highest Grade Silver Plated Ware



9401
"Grenoble" (French Gray only.)

9405
"Hanover" (Burnished.)



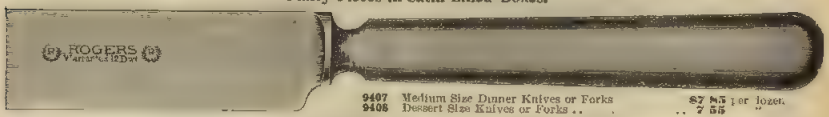
9403
"Warwick" (Burnished only.)
Prices on above Patterns, per dozen.

| | Extra Plate. | Triple Plate. |
|---|---|---|
| Tea Spoons.... | $ 4 30 | $ 5 85 |
| Dessert Spoons or Forks. | 7 65 | 9 90 |
| Table Spoons or Forks.. | 8 55 | 11 70 |
| Coffee Spoons | 4 25 | 5 60 |
| Orange Spoons. | 5 40 | 7 65 |
| Berry Spoons . | 21 60 | 32 40 |
| Sugar Spoons.. | 8 10 | 9 90 |

| | Extra Plate. | Triple Plate. |
|---|---|---|
| Jelly Spoons... | $10 80 | $15 30 |
| Oyster Forks | 5 65 | 6 75 |
| Fish Forks. | 37 80 | 45 00 |
| Berry Forks | 5 40 | 6 75 |
| Cold Meat Forks | 13 50 | 18 90 |
| Pie Knives | 27 00 | 37 80 |
| Butter Knives, Twist.. | 9 45 | 13 00 |

| | Extra Plate. | Triple Plate. |
|---|---|---|
| Fish Knives | $37 80 | $48 60 |
| Cream Ladles | 12 15 | 17 50 |
| Gravy Ladles | 16 20 | 24 30 |
| Oyster Ladles | 35 10 | 51 30 |
| Medium Ladles | 43 20 | 64 80 |
| Salad Set, Spoon and Fork | 48 60 | 70 20 |

## Fancy Pieces in Satin Lined Boxes.




9407 Medium Size Dinner Knives or Forks — $7 85 per doz.
9408 Dessert Size Knives or Forks .. — 7 55 "

9409 Medium Size Dinner Knives or Forks — $8 75 per dozen
9410 Dessert Size Knives or Forks — 8 40 "

9411 Medium Size Dinner Knives or Forks — $8 40 per dozen
9412 Dessert Size Knives or Forks — 8 05 "

We Are Known Throughout the Country as "THE HOUSE OF QUALITY."

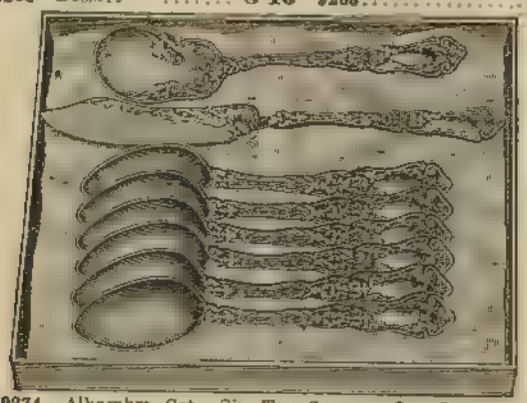
"THE HOUSE OF QUALITY"

ME

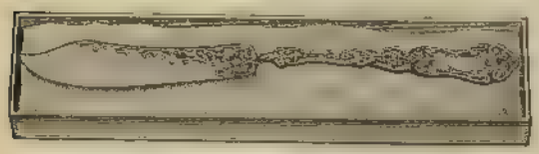
# WM. ROGERS MFG. CO.
## ANCHOR BRAND

# Alhambra Pattern

| | | Prices Per Dozen. A1 | Triple | | | Prices Per Dozen. A1 | Triple |
|---|---|---|---|---|---|---|---|
| 9260 | Tea Spoons | $4 56 | 9261 | $ 6 24 | 9266 | Medium Forks | $ 9 12 | 9267 | $12 48 |
| 9262 | Table " | 9 12 | 9263 | 12 48 | 9268 | Dessert " | 8 16 | 9269 | 10 56 |
| 9264 | Dessert " | 8 16 | 9265 | 10 56 | 9270 | Sugar Shells | 8 64 | 9271 | 10 56 |
| | | | | | 9272 | Butter Knives | 10 08 | 9273 | 13 92 |

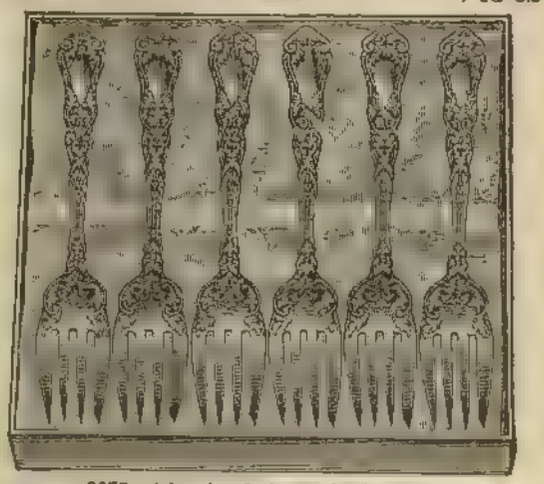


9274 Alhambra Set. Six Tea Spoons, One Sugar Shell and Butter Knife, $4 32 per set.



9276 Alhambra Butter Knife, in Case, $0 96 each.

9277 Alhambra Long Twist Pickle Fork, in Case, $1 16 each.

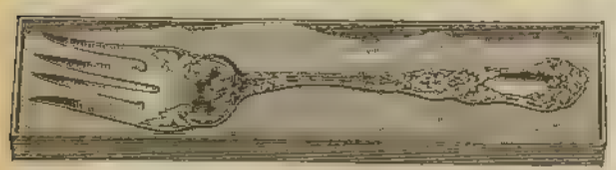


9275 Alhambra Individual Salad Forks, Per Set of Six, $4 56

9278 Alhambra Sugar Shell, in Case, $0 88 each

9280 Alhambra Oyster Forks. Per Set of Six, $3 04

9279 Alhambra Berry Spoon, $1 92 each.



9281 Alhambra Cold Meat Fork, $1 20 each.

9282 Alhambra Set, Butter and Sugar, $1 76 per set.

Alhambra Ladles.

| | | |
|---|---|---|
| 9283 | Cream, Plain, | $1 10 each. |
| 9284 | Gravy, " | 1 44 " |
| 9285 | Medium Soups, | 3 84 " |

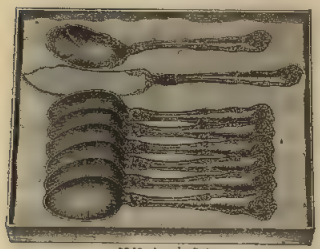
No Matter How Little Business You Do We're Glad to Get It. Don't Be Backward About Ordering Something Because the Amount Isn't Large.

"THE HOUSE OF QUALITY"

# WM. ROGERS & SON
TRADE MARK

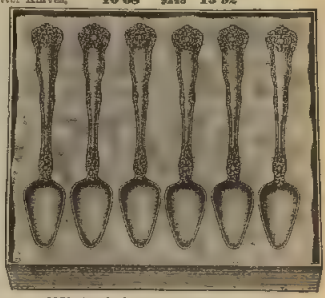
## Argyle Pattern

| | | Prices, per dozen. | | | | Prices, per dozen. | |
|---|---|---|---|---|---|---|---|
| | | Al. | Triple. | | | Al. | Triple. |
| 9235 | Tea Spoons, | $4 56 | 9236 $ 6 24 | 9241 | Medium Forks, | $ 9 12 | 9242 $12 48 |
| 9237 | Table " | 9 12 | 9238 12 48 | 9243 | Dessert " | 8 16 | 9244 10 50 |
| 9239 | Dessert " | 8 16 | 9240 10 50 | 9245 | Sugar Shells, | 8 64 | 9246 10 50 |
| | | | | 9247 | Butter Knives, | 10 08 | 9248 13 92 |

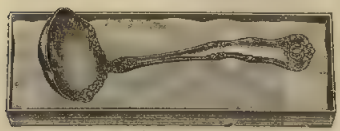


**9249** Argyle Set.
6 Tea Spoons, 1 Butter, 1 Sugar, $4 32 per set.

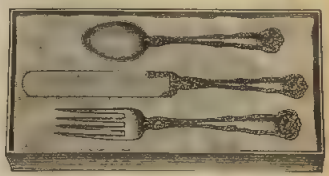
**9254** Argyle Cold Meat Fork, Plain, $1 20 each.



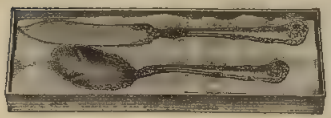
**9250** Argyle Orange Spoons, Plain Bowl, Per set of six, $2 88



Argyle Ladles.
**9251** Cream Plain, $1 10 each.
**9253** Gravy " 1 44 "
**9253** Med. Soup, Plain, 3 84 "

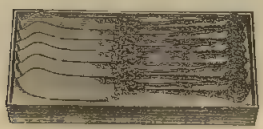


**9256** Argyle Child's Set, $1 02

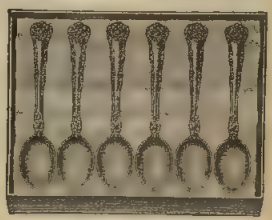


**9255** Argyle Set. Butter and Sugar. Per set $1 76

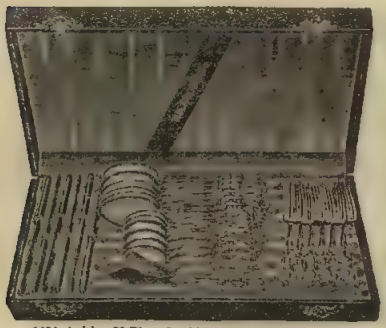
**9258** Argyle Berry Spoon, Plain, $1 92 each.



**9257** Argyle Individual Butter Spreaders, Per set of six, $4 08

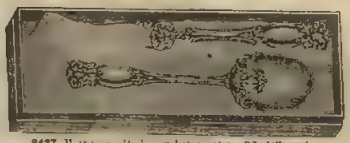


**9259** Argyle Coffee Spoons, Plain Bowls. Set of six, $2 25



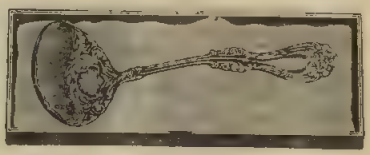
9424 Ardsley 26 Piece Combination Set, $14 00 each.

9425 Warwick Berry Spoons, $1 90 each.
9426 With Gold Lined Bowl 2 65 "



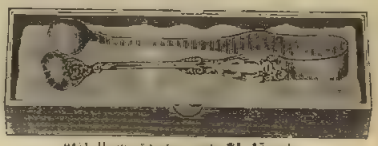
9427 Warwick B. B. and S. S. Set, $1 80 each.

9428 Warwick Pie or Cake Knife, $3 50 each.



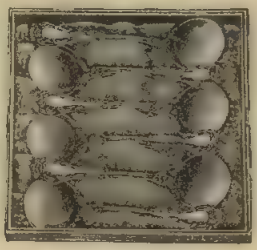
9429 Hotel or Medium Ladle $3 80 each.

9430 Warwick Cake Set, $1 00 each.

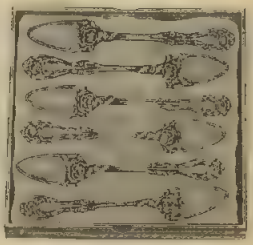


9431 Hotel Ladle $1 15 each.

9432 Hanover Butter Spreaders,
$7 35 per dozen.



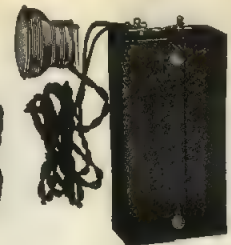
9433 Hanover Soup Spoons,
$8 50 per dozen.



9434 Hanover Orange Spoons,
$5 65 per doz.

# Cap and Lapel Lights

No. 3703



No. 2876
No. 2877

Two pins are located at the back of this lamp so that it can be fastened in the cap. The battery case is carried in the pocket and on it is a switch by which the light can be turned on and off. For inspectors this light is most convenient, for not only are both hands free, but, with the lamp mounted on the cap, the light is always projected in the direction the head is turned. Campers find this lamp extremely convenient. It can be used in the cap while walking or, in camp, can be stuck in the canvas of the tent or the bark of a tree.

The lapel light is of the same type but smaller

| | | |
|---|---|---|
| No. 3876 | Cap Lantern (6-cell, complete) | $12.25 |
| | Renewal Tungsten Battery No. 731 | 1.50 |
| | Renewal Mazda Bulb No. 1195 | 1.00 |
| No. 2877 | Cap Lantern (3-cell, complete) | 11.00 |
| | Renewal Tungsten Battery No. 734 | .75 |
| | Renewal Mazda Bulb No. 1189 | .55 |
| No. 3703 | Lapel Light (complete) | 4.50 |
| | Renewal Tungsten Battery No. 751 S | 1.00 |
| | Renewal Mazda Bulb No. 1199 | .55 |

## ELECTRIC TUNGSTEN CANDLES

No. 1650

Electric Candles are among the most attractive decorations that can be had. The Eveready Electric Candles are self-contained, carrying their own battery and producing their own current and require, of course, no matches. They can be carried around as easily as wax candles, but have the advantage of being absolutely safe, giving a steady light that does not flicker and cannot be put out except by operating the switch. In a few minutes a table can be made bright and cheerful with Eveready Candles, whereas it would, perhaps, take hours to arrange electric lights that require wires. Wires are unsightly and hard to conceal. The absence of wire in the Eveready Candles is not only an advantage from a standpoint of appearance but, being absolutely independent, the Eveready Candles can be placed exactly where they are needed without having to take into consideration the location or length of wires. These candles give a brilliant light and one battery will furnish sufficient current for many dinner parties. And new batteries can easily and quickly be put into place.

No. 1661

No. 1654
No. 1655

No. 1656

With Tungsten Batteries and Mazda Bulbs

| | | |
|---|---|---|
| No. 1650 | Highly finished Enameled Candle and Nickel Base. Price, complete | $8.85 |
| | Renewal Tungsten Battery No. 753 | 1.00 |
| | Renewal Mazda Bulb No. 1113 | 1.00 |
| No. 1651 | Quadruple Silver Base. Price, complete | 11.15 |
| | Renewal Tungsten Battery No. 753 | 1.00 |
| | Renewal Mazda Bulb No. 1113 | 1.00 |
| No. 1654 | Iron Candle. Very popular design. Price complete | 6.85 |
| | Renewal Tungsten Battery No. 734 | 1.00 |
| | Renewal Mazda Bulb No. 1113 | 1.00 |
| No. 1655 | Same with larger battery. Price, complete | 11.15 |
| | Renewal Tungsten Battery No. 724 | 1.70 |
| | Renewal Mazda Bulb No. 1115 | 1.00 |
| No. 1656 | New and beautiful design in "Art Nouveau" Finished in either Antique Brass or Oxidized Silver. Price complete | 6.85 |
| | Renewal Tungsten Battery No. 734 | 1.00 |
| | Renewal Mazda Bulb No. 1113 | 1.00 |

# Electric Ruby Lamp

For Photograph Work
Price (Complete)

| | | |
|---|---|---|
| No. 4710 | | $6.85 |
| | Renewal Tungsten Battery No. 734 | 1.00 |
| | Renewal Mazda Bulb, clear, No. 1139 | .75 |

# House and Barn Lamp

Cases are in polished oak and ebony, the trimmings are polished nickel. The lamps are light and clean and illuminate in a brilliant manner.

With 3-cell battery and 2½ volt lamp.

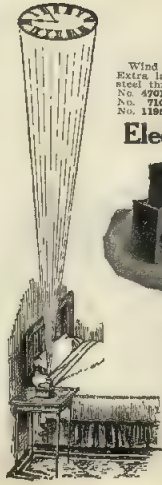
| | | |
|---|---|---|
| No. 4703 | Price complete | each $6.65 |
| | Renewal Tungsten Battery No. 734 | each 1.00 |
| | Renewal Mazda Bulb No. 1139 | each .70 |

# Watchman's Lantern

Wind and storm have no effect upon them. Extra large lens and reflector. Highly nickeled steel throughout, cannot explode.

| | | |
|---|---|---|
| No. 4701 | Lantern, complete | each $11.20 |
| No. 710 | Tungsten Battery | each 1.65 |
| No. 1195 | Mazda Bulb | each .80 |

# Electric Ceiling Clock



They are nickel plated, highly polished, and the box is of polished oak, the latter to contain the battery, which, with ordinary use will last for months and can then be renewed at small expense. Clock accurate time keeper, 24 hour movement.

A flexible cord is attached to the clock and the lighting button may be hung or laid wherever convenient.

Press the button by your head the time appears right overhead.

They are novel, new and useful, too. Sell quickly, and a splendid line to carry.

| | | |
|---|---|---|
| No. 2235 | Complete | each $16.65 |
| | Renewal Tungsten Battery No. 734 | each 1.00 |
| | Renewal Mazda Bulb No. 1139 (two required) | each .70 |

# WILLSON'S SPECTACLES AND EYE GLASSES.

### FOCUS SPECTACLES.

**No. 900 Interchangeable Spectacle.** Albex white metal frames. Albex lenses "O" eye size. Assorted dozens 5/16, 8/24, 10/36 and 12/48. This spectacle is made with screw and pin joint to interchange with "O" eye lenses generally carried in stock by the trade... per dozen $5.55

**No. 300 Albex White Metal Spectacle.** Well finished frame. Albex white lenses "O" eye size, strictly interchangeable. Assorted sizes of saddle bridges. Assorted dozens 5/16, 8/24, 10/36 and 12/48....per dozen $7.40

### COLORED SPECTACLES.

**No. 603½ Riding Bow Coquille Spectacle.** Nickel-plated steel frame Lenses of large size, smoke, blue, and green colors. Packed in assorted shades of one color to the dozen .....per dozen $2.80

**No. 705½ Mi-Coquille Spectacle for Children.** Nickel-plated frame with saddle bridge and short temples. Smoke, blue and green lenses Assorted shades..... per dozen $3.70

**No. 805 Better Grade OO EYE Lens,** smoke interchangeable spectacles per doz. $5.55

### AJAX RIMLESS COLORED RIDING BOW.

**The glass in all these goods is held by riveting instead of screws.**

PEN. O. CO.

**No. 600 Mi-Coquille.** Ajax Rimless Nickel-plated Riding Bow "OO" eye size. Smoke. Solid shades, Nos. 1, 2, 3, 4, 5 and 6, or assorted shades. Per dozen.....$6.50

### FOCUS EYE GLASSES.

**No. 250 Convex Rimless Eye Glass.** White metal mounting, well finished. Zylonite offset guard. Albex lenses "O" eye size in assorted focus numbers 8/24, 10/36, 12/48 and 15/60. Each pair of these eye glasses is packed in a neat protective envelope, these being placed in partition boxes holding one dozen .....per dozen $6.50

### FOCUS SPECTACLES.

**No. 907 Interchangeable Spectacle.** Albex white metal frames. Riding bow temples and saddle bridge. Albex lenses in interchangeable "O" eye size. Assorted dozens 5/16, 8/24, 10/36 and 12/48...per dozen $5.55

**No. 307 Albex White Metal Riding Bow Spectacle.** Well finished frame. Albex white lenses "O" eye size, strictly interchangeable. Assorted sizes of saddle bridges. Assorted dozens 5/16, 8/24, 10/36 and 12/48 .....per dozen $7.40

**No. 357 Interchangeable Alloy Riding Bow Spectacle.** Excellent quality alloy metal, 14 carat color. Well finished. Assorted sizes of saddle bridges. Albex white lenses "O" size. Assorted dozens 5/16, 8/24, 10/36 and 12/48.....per dozen $7.40

### OO EYE SIZE

**No. 9073 Albex, OO eye, interchangeable,** white metal spx, asst'd focus, per doz. $6.50

### EYE PROTECTORS.

**No. 418. Eye Protector.** Nickel-plated steel frame with riding bow temples. Saddle bridge. Clear white glass, 1 5/8 inch in diameter. Slightly hollow on the face toward the eyes.....per dozen $3.35

**No. 419 Eye Protector.** Same as No. 418, with smoke and blue lenses. Per dozen . . .....$4.25

### FOCUS EYE GLASSES.

**No. 950 White Metal Mounting** (Non-oxidizable). The mounting is so constructed that the lenses cannot work loose and the guard is of the most approved design. White lenses in "O" eye size Assortments 8/24, 10/36 and 12/48..... Per dozen . . .....$3.15

**No. 955 Alloy Mounting** in 14 carat color. The mounting is so constructed that the lenses cannot work loose and the guard is of the most approved design. White lenses in "O" eye size. Assortments 8/24, 10/36 and 12/48. . . Per dozen ..... .....$3.15

### FOCUS SPECTACLES.

**No. 557½ OEYE** White Lens Clamp End Spectacles,.....per dozen $3.70

**No. 407½ Riding Bow Spectacle,** Tempered steel frame, nickel-plated. Saddle bridge. Large-sized plano convex lenses, true focus numbers. Assorted dozens 5-16, 8-24, 10-36 and 12-48. Per dozen..... .....$2.80

### FOCUS SPECTACLES.

**No. 500½ Plano Convex.** Tempered steel frame, nickel-plated. Large-sized lenses, true focus numbers. Assorted dozens 8/24, 10/36 and 12/48 .....per dozen $2.20

### COLORED SPECTACLES.

**No. 404½ Straight Temple Mi-Coquille Spectacle.** Nickel-plated frame. "OO" sized lenses, smoke and blue colors. Assorted shades. Per dozen .....$2.80

### COLORED SPECTACLES.

**No. 429 Eye Protector.** Nickel-plated steel frame with riding bow temples. Saddle bridge. Large oval smoke and blue lenses. "Jumbo" size. Slightly hollow on the face toward the eyes.....per dozen $2.75

**No. 294** Jumbo amber..... $6.50

### COLORED EYE GLASSES.

**No. 960 White Metal Mounting** (Non-oxidizable). Mi-Coquille lenses, smoke and blue "OO" size. The mounting is so constructed that the lenses cannot wear loose and the guard is of the most approved design, comfortable and cleanly. Per dozen . . .....$2.80

**No. 965 Alloy Mounting** in 14 carat color. Mi-Coquille lenses, smoke, blue and green "OO" size. The mounting is so constructed that the lenses cannot wear loose, and the guard is of the most approved design, comfortable and cleanly. Per dozen ..... .....$2.80

## WOSTENHOLM I•XL RAZORS

These razors are made from highest grade of selected English razor steel, hardened and tempered, and guaranteed to hold their edge. Honed ready for immediate use

Highly polished and etched, ⅝-inch hollow point; hollow ground blade, plain tang; black rubber handle

Doz.
No. KW01909 Weight per dozen 31 oz..... $12.00

Highly polished and gold etched, ⅝-inch square point, hollow ground blade; plain tang, plain black rubber handle.

Doz.
No. KW03492—Weight per dozen 31 oz.....$16 00

Highly polished and etched, ⅝-inch hollow point, hollow ground blade, plain tang; plain black rubber handle

Doz.
No. KW01442—Weight per dozen 31 oz... $15 00

Highly polished and etched, ⅝-inch square point, hollow ground blade, plain tang; plain black rubber handles, with gilt lettering

Doz.
No. KW03548—Weight per dozen 30 oz.....$16 00

Highly polished; ⅝-inch round point, hollow ground blade, plain tang plain black rubber handle

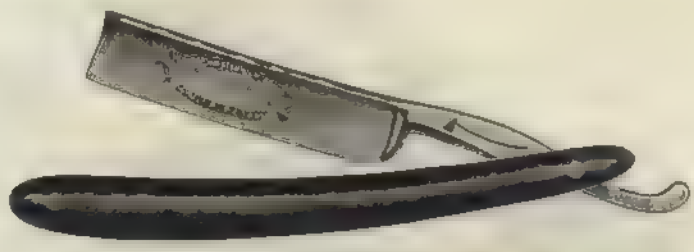
Doz.
No. KW01163—Weight per dozen 30 oz.....$15 60

Full Crocussed and etched, ⅝-inch round point, hollow ground blade, plain tang, fancy grain celluloid handle.

Doz.
No. KW01324—Weight per dozen 31 oz.....$24 00

Highly polished and gold etched, ⅝-inch square point; hollow ground blade; plain tang; black rubber handle

Doz.
No. KWV5—Weight per dozen 30 oz.....$15 00



Highly polished and etched, ⅝-inch square point, hollow ground blade; plain tang; plain black rubber handle.

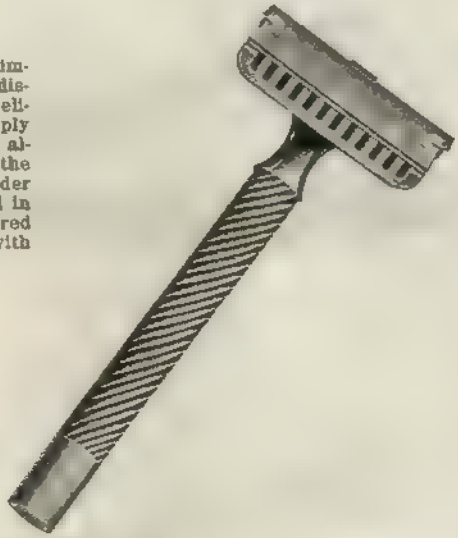
Doz.
No. KW01461—Weight per dozen 31 oz. .....$24.00

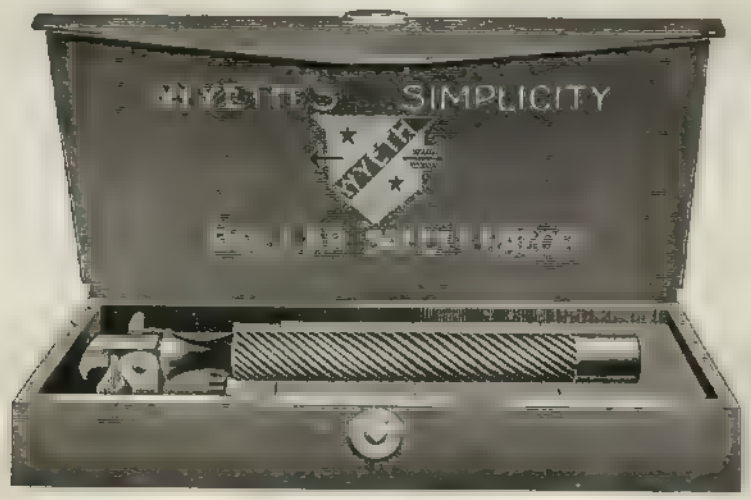
All above packed, one in case; one-half dozen in cardboard box.

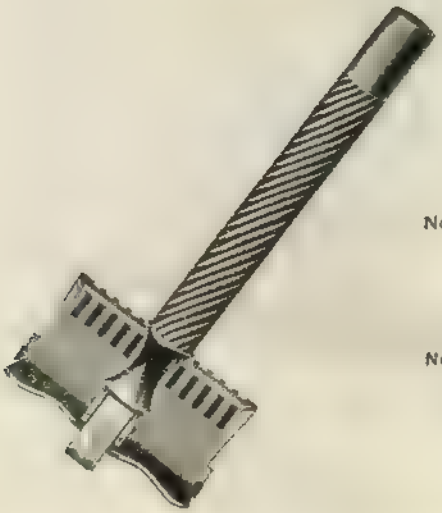
# SAFETY RAZORS

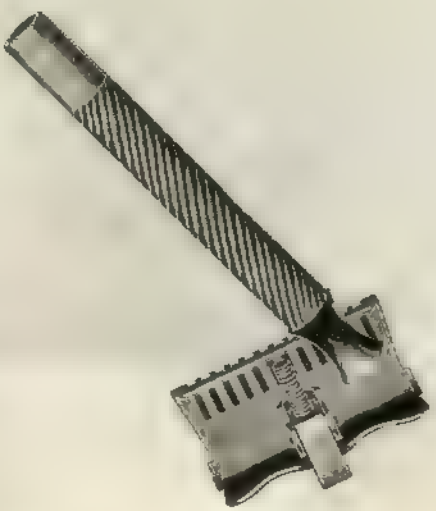
## WYETH SIMPLICITY

The Wyeth simplicity safety razor, as its name implies, is most simple in construction. It has only two distinct parts, blade-holder and handle; has no small or delicate parts to get lost or wear out quickly. By simply giving a turn to left the catch bar releases holder and allows it to be folded down against handle and out of the way; also allows removal of blade; by pushing blade-holder up and giving handle a turn to right the holder is held in correct position and blade is held rigidly in place; scored handle, which affords a good grip; all metal parts, with exception of blades, are heavily nickel plated.







Doz. Sets

No. K139—Complete with razor and six blades in snap cover leatherette case; size of case 4⅜x2x⅞ inches; weight per dozen sets 2¾ lbs. $10 00

Packed, one in box; twelve in carton.

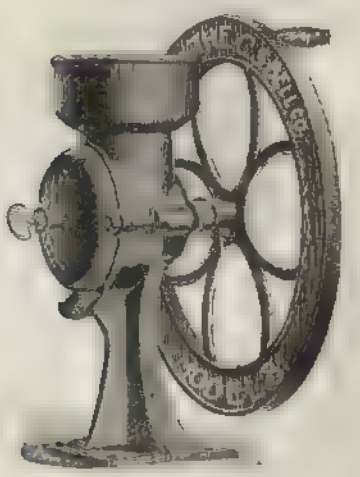
### BLADES

Pkg. of Six

No. K134—Manufactured from the best grade of crucible steel; highly tempered and hardened; each blade in sanitary anti-rust envelope; six envelopes in package; weight per package 4 oz. . . . . $ 0 36

Packed, 24 packages in carton

## GRINDING MILLS



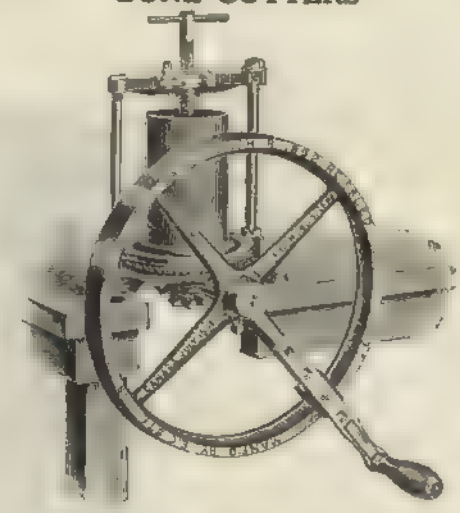
MODEL

Cast iron body, hopper and wheel, red enameled and trimmed in gold bronze; steel alloy grinders, adjustable by thumb screw for grinding fine or coarse; large open hopper; flat base to screw to table; for grinding shells, dry bones, chicken feed, corn and other grain.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Height, inches | 13 | 16 | 18½ |
| Diameter wheel, inches | 12½ | 16½ | 19¾ |
| Base, inches | 4x6 | 6x6½ | 7¼x7¼ |
| Capacity per hour, bushels | ½ to 1 | ¾ to 1½ | 1 to 2 |
| Weight, lbs. | 28 | 52 | 87 |
| Each | $4.00 | 8.00 | 12.00 |

Packed, one in box.

## BONE CUTTERS



No. 4
STEARNS

Green bone; malleable iron parts, black japanned; drop forged steel cutter head working on milling principle which grinds the bone without cracking or splintering it, cutter head clears itself, thus preventing clogging; automatic feed; quickly attached to bench or table; cuts hopper full of bone in two or three minutes.

Each

No. 04—With 14-inch crank; hopper 4x6½ inches, capacity 2½ lbs.; weight 26 lbs. ..... $12 50

No. 4—With 15½-inch wheel, hopper 4x6½ inches, capacity 2½ lbs.; weight 46 lbs. ..... 16 50

## CORN PLANTERS

WYETH EASY,

Doz

No. 2—All parts made of steel and iron except hardwood grips on handles; entire height 33½ inches; rotary drop; complete with four discs to drop one, two and three grains and broom corn; hopper 9x4 inches, weight per dozen 108 lbs. ..$17 00

Packed, one-half dozen in crate

ACME

Doz

No. 8—Entire height 34 inches; hardwood handles, varnished; steel blade; adjustable slide valve to regulate drop of corn; hopper 8x3 inches; weight per dozen 58 lbs. ..... $13 00

Packed, one dozen in crate

TRIUMPH

Doz

No. T—Hardwood, varnished; steel blades, bolted handles, entire height 34 inches, adjustable iron slide valve to regulate the drop of corn; hopper 3x9 inches; weight per dozen 58 lbs. ..... $13 00

Packed, one-half dozen in crate.

## SEED SOWERS

CYCLONE

Doz

No. 45—Large flanged, distributing wheel; heavy canvas bag, wood parts painted red; adjustable triple gears; automatic feed shut-off; slope feed board keeps hopper filled; capacity one-half bushel; weight per dozen 45 lbs. ..... $21.60

Packed, one-sixth and one-fourth dozen in cartons.

## VEGETABLE SLICERS

White maple, adjustable steel knife

Doz.

No. 601 - One knife; size 3¼x12⅝ inches; weight per dozen 6 lbs.....$ 2.20

Packed, one dozen in box

Plain hardwood, fluted steel blade, tinned, with wood guard.

Doz.

No. 7 Size 3⅛x10 inches, weight per dozen 5¾ lbs.....$ 2.70

Packed one dozen in box

Plain hardwood; fluted steel blade, tinned with tin guard.

Doz

No. 6 Size 4⅜x12 inches; weight per dozen 9 lbs.....$ 4.00

Packed, one dozen in box

## SLAW CUTTERS

White maple; adjustable steel knife.

Doz.

No. 621—One knife; size 6⅛x16⅛ inches; weight per dozen 24 lbs. .....$ 4 00

No. 622—Two knives; size 6⅛x18 inches; weight per dozen 25 lbs. ..... 5.50

Packed, one dozen in box.

White maple frame; triple tinned, metal bed; adjustable steel knife.

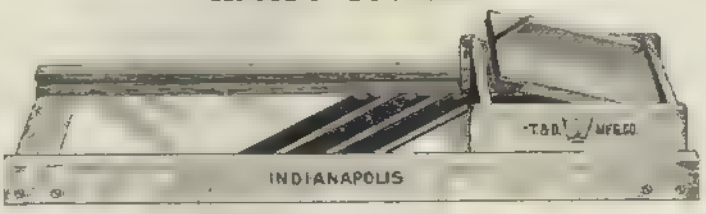
Doz.

No 631 One knife; size 6⅝x18 inches; weight per dozen 23 lbs. .....$ 7.00

No. 632 - Two knives; size 6⅝x19½ inches; weight per dozen 25 lbs. ..... 9.00

Packed, one-half dozen in box.

## KRAUT CUTTERS




INDIANAPOLIS, SANITARY

White maple frame; triple tinned, metal bed, absolutely guaranteed against rust; 45 degree pitch of steel knives; four point adjustment; sliding box with safety lid.

Doz.

No. 642 Two knives, size 9x27 inches; weight per dozen 100 lbs .....$21 50

No 643 Three knives; size 9x29 inches; weight per dozen 105 lbs ..... 25.00

No. 645 Three knives, size 11x33 inches; weight per dozen 130 lbs. ..... 37.50

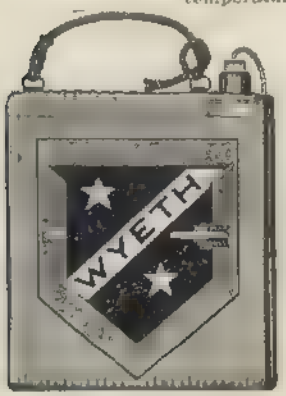
No. 647 Three knives; size 13x40 inches; weight per dozen 260 lbs. ..... 60.00

No. 648 Four knives; size 13x42 inches; weight per dozen 270 lbs. ..... 80 00

Packed, Nos. 642 to 645, one-quarter dozen in sealed box; Nos. 647 and 648, one-quarter dozen in wooden crate

## WATER BAGS

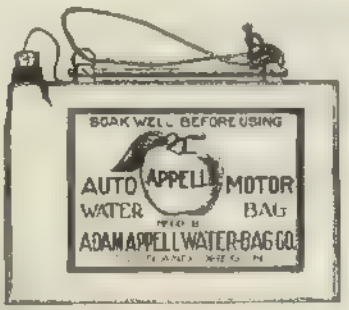
Have peculiar quality of holding water and yet exuding enough moisture to prevent the sun or outside air from having any effect upon the temperature of the water inside the bag; should be exposed to the air; can be folded when not in use




Nos. W1 and W2½

Nos. R1 to R5

Nos. S1 and S2½




Nos. A1 and A2½

### WYETH

Made of linen and hemp, closely woven and securely sewed, fitted metal mouthpiece and cork, securely knotted rope handle

| Nos. | W1 | W2½ |
|---|---|---|
| Capacity, gallons | 1 | 2½ |
| Size, inches | 9¾x12 | 11¾x16½ |
| Weight per dozen, lbs. | 7¾ | 10½ |
| Dozen | $12 00 | 15 00 |

### APPELL'S SOUTH AFRICAN

Made of extra heavy linen and hemp closely woven and securely sewed with heavy tinned fitted with metal mouthpiece and cork securely knotted sisal rope handle.

#### REGULAR

Corners signally rounded to prevent accumulation of dirt and sediment

| Nos. | R1 | R2½ | R5 |
|---|---|---|---|
| Capacity, gallons | 1 | 2½ | 5 |
| Size, inches | 9¾x12 | 11¾x15½ | 16x23 |
| Weight per dozen, lbs | 7¾ | 10½ | 17 |
| Dozen | $13 50 | 17 00 | 30 00 |

#### SANITARY

With metal slide fastener at top; can be opened, cleaned and closed without detaching, fastener; bag may be filled with ice, if desired

| Nos. | S1 | S2½ |
|---|---|---|
| Capacity, gallons | 1 | 2½ |
| Size, inches | 11⅛x10¾ | 11½x17 |
| Weight per dozen, lbs. | 9¼ | 12 |
| Dozen | $13 50 | 17.00 |

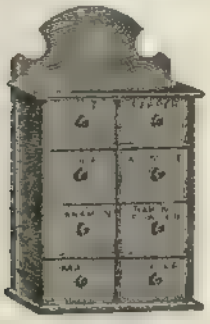
Packed, one dozen in bundle.

#### AUTOMOBILE

Spreader on top to keep bag in shape while hanging, made expressly for motor car and motor cycle users

| Nos. | A1 | A2½ |
|---|---|---|
| Capacity, gallons | 1 | 2½ |
| Size, inches | 10¼x12 | 11¾x15 |
| Weight per dozen, lbs. | 8¾ | 12 |
| Dozen | $13 50 | 17 00 |

## SPICE CABINETS



Made of hardwood, natural finish, highly polished and varnished with transparent varnish; drawers neatly lettered and fitted with wood pulls; can be hung on wall

Doz.

No. 1—Eight drawers, size 9x5x16¾ inches; weight per dozen 64 lbs. ..... $10 50

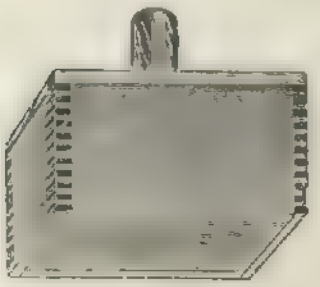
## BUTTER MOULDS

ROUND

Plain hard maple; detachable handle; assorted prints.

| Nos. | 101 | 108 | 116 |
|---|---|---|---|
| Size, oz. | 1 | 8 | 16 |
| Diameter, inches | 1⅝ | 3⅝ | 4½ |
| Weight per dozen, lbs. | ¾ | 6 | 9 |
| Dozen | $0.80 | 2.50 | 2.70 |

Packed, No 101, loose No. 108, two dozen; No 116, one dozen in crate.



No. 216

No. 316

COLORADO

Oblong; hard maple; dovetailed corners, fastened with brass nails.

Doz.

No. 216—Size one pound; 3¼x5½ inches; 3½ inches high; weight per dozen 9 lbs. ..... $ 3 50

Packed, one dozen in crate

CALIFORNIA

Square, plain hard maple; brass hinges and screws.

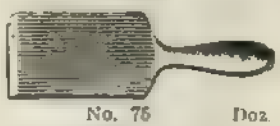
Doz.

No. 316—Size one pound; 3⅜x5⅛ inches; weight per dozen 8⅛ lbs. ..... $ 5.30

Packed, two dozen in crate.

## BUTTER LADLES AND SPADES

No. 70



No. 75

Doz.

No. 70—Ladle; plain, hard maple; 4 inches wide; 9 inches long; weight per dozen 2 lbs. ..... $ 0.70

No. 75—Spade; fluted, hard maple; 2¾ inches wide; 10 inches long; weight per dozen 2 lbs. ..... 0.70

Loose.

## SALT BOXES

Plain white wood, neatly lettered; can be hung on wall

Doz.

No. 2—Size 5¼x4¼x8 inches; weight per dozen 9 lbs. ..... $ 1 80

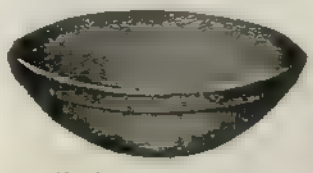
## BREAD BOARDS

White basswood; plain finish; mortised ends.

| Nos. | 2 | 3 | 4 |
|---|---|---|---|
| Size, Inches | 16x22 | 18x24 | 20x27 |
| Weight per dozen, lbs | 53 | 62 | 86 |
| Dozen | $6 50 | 7.30 | 9.00 |

Packed, one half dozen in bundle

## CHOPPING BOWLS



Hard maple, waxed

| Nos. | 13 | 15 | 17 | 19 |
|---|---|---|---|---|
| Diameter, inches | 13 | 15 | 17 | 19 |
| Weight per dozen, lbs. | 18 | 27 | 49 | 67 |
| Dozen | $3 50 | 6 00 | 11 00 | 18.00 |

Packed, Nos. 13 and 15, one dozen; Nos. 17 and 19, one-half dozen in crate.

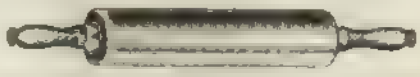
## ROLLING PINS

Plain maple; revolving handles.

Doz.

No. 125—Plain handles; size 10⅝x2⅜ inches; entire length 13½ inches; weight per dozen 19 lbs. ..... $ 2.50

No. 150—Black enameled handles; size 10½x2½ inches; entire length 19 inches; weight per dozen 19 lbs. ..... 3 00



Opal glass; revolves on hardwood handles and rod.

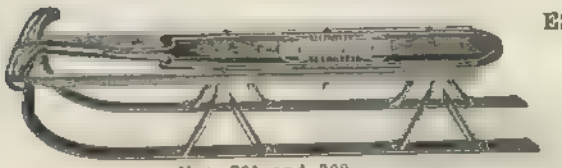
Doz

No. 175—Size 10¼x2¾ inches; entire length 18 inches, weight per dozen 18½ lbs ..... $ 5 50

Packed, one in corrugated paper tube.

## STEERING SLEDS

### ESKIMO AND DREADNOUGHT



Nos. 301 and 302

No. 303

Knees of stamped steel; runners of best crucible steel, T shaped and so curved in front as to give a maximum length of steering surface; sled responds instantly, without loss of speed, to the slightest bend in the steel runner made by the steering bar; gear and runners finished in red enamel; tops of rock elm, beautifully painted and decorated.

| | Doz. |
|---|---|
| No. 301—Eskimo; length 36 inches; width 12 inches; height 6 inches; wood steering bar; capacity, one adult or two children; weight per dozen 100 lbs. | $23.00 |
| No. 302—Eskimo; length 40 inches; width 13 inches; height 6¼ inches; wood steering bar; capacity, one adult or two children; weight per dozen 120 lbs. | $31 50 |
| No. 303—Dreadnought; length 45 inches, width 14 inches; height 8¼ inches; wood steering bar; capacity two adults or three children; weight per dozen 168 lbs. | 38 00 |

## BOYS' WAGONS

### IRON CLAD

Steel body and gear; japanned steel wheels, body handsomely painted red; striped and stenciled; gear black enameled; hard maple tongue.

| Nos. | 04 | 03 | 02 | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|
| Size of body, inches | 9x18 | 10x20 | 11x22 | 12x24 | 13x26 | 14x25 | 15x [illegible] | 16x32 |
| Diam. front wheels, inches | 6 | 7 | 7½ | 8 | 10 | 11 | 12 | 13 |
| Diam. rear wheels, inches | [illegible] | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Weight per dozen, lbs. | 72 | 84 | 96 | 132 | 174 | 200 | 208 | 260 |
| Dozen | $ 7 30 | 14 90 | 16 50 | 20.20 | 24 00 | 26.60 | 29 20 | 34 00 |

Packed, one-quarter dozen in crate.

### EXTRA JAPANNED STEEL WHEELS

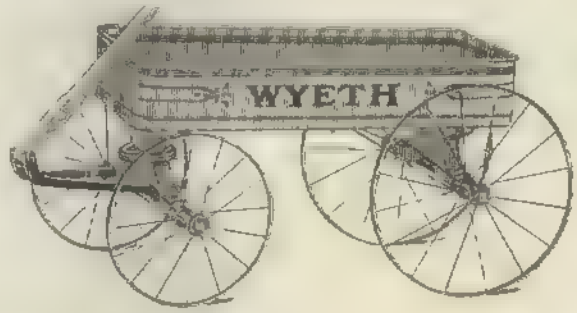
| Nos. | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Weight per dozen front, lbs. | 7 | 10 | 10 | 10 | 15 |
| Dozen | $2 80 | 3.50 | 3 80 | 4.00 | 4.50 |
| Weight per dozen, rear, lbs. | 10 | 12 | 12 | 12 | 18 |
| Dozen | $3 50 | 4.00 | 4.50 | 5 00 | 5.60 |

### WYETH COASTER

Body of No. 24 sheet steel; extra heavy steel wheels painted green, with 16 spokes of No. 10 wire, oval steel tires; ⅝-inch round steel axles; heavy hard maple bolsters; malleable iron fifth wheel, extra long wrought draw irons making it a fine coaster, vermillion body and gear, striped in gold; inside painted green; hard maple tongue.

| | Doz |
|---|---|
| No. 227½—26x13 inches; 11 and 14-inch wheels; weight per dozen 276 lbs. | $30.50 |
| No. 228—28x13¾ inches; 11 and 14-inch wheels; weight per dozen 300 lbs. | 35.50 |
| No. 229—30x14½ inches; 11 and 14-inch wheels; weight per dozen 300 lbs. | 39.50 |

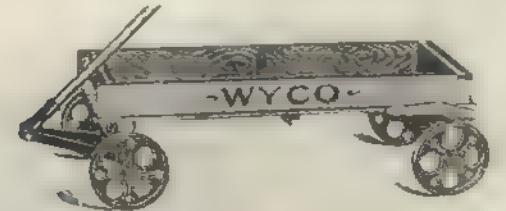
Packed, one-sixth dozen (knocked down) in crate.




#### EXTRA STEEL WHEELS

| | Doz |
|---|---|
| No. F—Front; diameter 11 inches; for Nos. 227½, 228 and 229 Wyeth coaster wagons; weight per dozen 10 lbs. | $ 5 00 |
| No. R—Rear; diameter 14 inches; for Nos. 227½, 228 and 229 Wyeth coaster wagons; weight per dozen 12 lbs. | 5 00 |

### WYCO WOOD COASTER



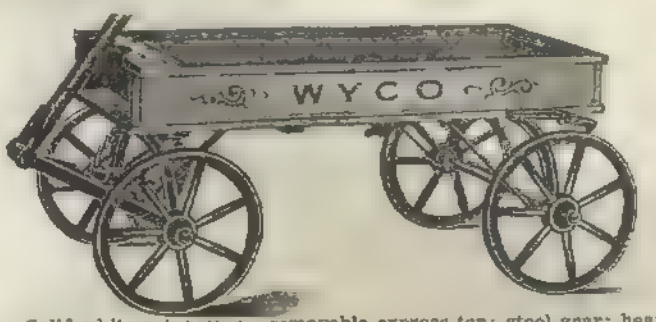

White ash bottom; skeleton type removable express top; wood gear, blue, cast iron wheels with extension hubs, 2¾ inch face; 1 inch slotted hubs; rock maple axles; steel hounds; reliable steering mechanism; hard maple T-handle tongue; equipped with hand brake; attractively finished

| | Doz. |
|---|---|
| No. 0A—36x12 inches; 6-inch wheels, weight per dozen 192 lbs. | $31 50 |

Packed, one-twelfth dozen in paper carton.

#### EXTRA WHEELS

| | Doz. |
|---|---|
| No. 6—6-inch; to fit No. 1A Wyco Wood Coaster, weight per dozen 22 lbs. | $ 8 00 |
| No. 11—11-inch; to fit Nos. 2A and 3A Wyco Wood Coaster, weight per dozen 31 lbs. | 10 00 |




Solid white ash bottom, removable express top; steel gear; heavy wheels with iron hubs, felloes and tires; hard steel roller bearings; perfect steering mechanism; hard maple tongue; equipped with hand brake; attractively finished.

| | Doz. |
|---|---|
| No. 1A—36x14¼ inches; 8-inch wheels; weight per dozen 332 lbs. | $63 50 |
| No. 2A—36x14¼ inches; 11-inch wheels; weight per dozen 414 lbs. | 76 00 |
| No. 3A—40x16½ inches, 11 inch wheels, weight per dozen 485 lbs. | 84 00 |

Packed one-twelfth dozen in paper carton

## BOYS' WHEELBARROWS

Steel box nicely painted and decorated; handles varnished and striped; wheel tinned.

Doz.

No. 155—Garden, box 13 inches; wheel 8 inches; handles 30 inches, painted red with gold striping, weight per dozen 28 lbs. . ..... $11.50

Packed, one-half dozen in crate.

Doz.

No. 151—Dump; box 15 inches, wheel 8 inches, handles 30 inches; painted red with gold striping; weight per dozen 31 lbs. . ..... $12 50

Packed, one-half dozen (knocked down) in crate.

## HAND CARS

Enameled Bessemer steel frame, gear and frame painted black, seat board painted green, fancy striped and varnished; gear wheel fully protected by sheet steel screen, steel driving handle with hard maple grips.

Each

No. 5—Extreme length 38 inches, wheels 8 and 12 inches, with ⅜-inch rubber tires, weight 37 lbs..... $ 6.50

Packed, one in crate.

## TRICYCLES

Black japanned frame; tinned steel wheels; adjustable seat.

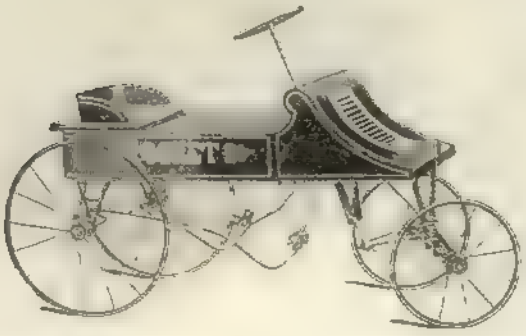
Each

No. 2—For girls 3 to 6 years old, 20-inch wheels, guide wheel 13 inches, weight 32 lbs . $ 7 00

No. 3—For girls 4 to 7 years old; 24-inch wheels, guide wheel 12 inches, weight 34½ lbs . 8 50

Packed, one in crate.

## BOYS' AUTOMOBILES



No. 375½

Body made of sheet steel; outside painted red; striped and ornamented in gold; inside painted green; seat and seat boards fold down, making a flush bottom; wrought steel gears, malleable iron steering wheel; wheels tinned; balance of gear black enameled.

Each

No. 374½ Hummer, body 14x30 inches, wheels 10 and 16 inches, with ⅜-inch rubber tires; weight 35 lbs $ 8 50

No. 375½ Rocket, body 15x36 inches, wheels 12 and 18 inches with ⅝-inch rubber tires; weight 42 lbs..... 9 00

Packed, one in crate.

## VELOCIPEDES

Frame handsomely painted black; wheels and pedals tinned, adjustable seat.

| Nos. | 1 | 2 | 3 | 4 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| Front wheel, inches | 16 | 20 | 24 | 26 | 16 | 20 | 24 |
| Rear wheel, inches | 12 | 16 | 18 | 18 | 12 | 16 | 18 |
| Leg measure, inches | 19 | 21 | 22 | 23 | 19 | 21 | 22 |
| Weight, lbs | 15 | 17 | 21 | 24 | 16½ | 17½ | 21½ |
| Each steel tires | $2 50 | 3.00 | 3.50 | 4.00 | .... | .... | .... |
| Each, rubber tires..... $ | .... | .... | .... | .... | 4.50 | 5.00 | 5.50 |

Nos. 1 to 4 have steel tires; Nos. 6 to 8 have rubber tires.

# COMBINATION POCKET KNIVES AND TOOLS

★ *DIAMOND EDGE*

Specially Adapted to the Needs of Automobilists

**Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use, Free from Flaws and Imperfections. FULLY GUARANTEED.**

Length 3¾ Inches; German Silver Bolsters, One Large Spear and One Small Combination Blade, Half Crowns Polished and Etched, Brass Lining, German Silver Shield, The Combination Blade Consists of Screw Driver, Can Opener and Chisel Or Leather Punch Key; Weight per Dozen 2 lbs.

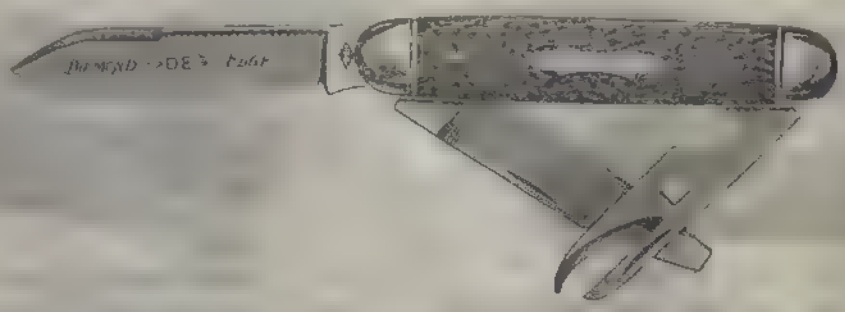
| | Per Dozen |
|---|---|
| **No. 2S410ST— Patent Stag Handle** | **$13.20** |

Length 3 Inches, German Silver Bolsters, One Large Spear and One Small Combination Blade, Half Crowns Polished and Etched, One Cork Screw, Brass Lining, Combination Blade Consists of Screw Driver, Can Opener and Chisel Or Leather Punch Key, Weight per Dozen 1 lbs.

| | Per Dozen |
|---|---|
| **No. 3S411P— Pearl Handle** | **$36.25** |
| **No. 4S411¼P— Same as No. 3S411P except with Punch Blade in addition** | **39.60** |
| **No. 4S411PF— Same as No. 3S411P except with Flexible File Blade in addition** | **39.60** |

Length 3 inches, German Silver Bolsters, One Large Spear Blade, One Cork Screw, One Combination Blade; Half Crowns Polished and Etched, Brass Lining, Combination Blade Consists of Screw Driver, Can Opener and Chisel Or Leather Punch Key, Weight per Dozen 2 lbs.

| | Per Dozen |
|---|---|
| **No. 3S411ST— Patent Stag Handle** | **$22.00** |
| **No. 4S411¼ST—Same as No. 3S411ST except with Punch Blade in addition** | **23.75** |
| **No. 4S411STF —Same as No. 3S411ST except with Flexible File Blade in addition** | **23.75** |



**Length 3¾ Inches; German Silver Bolsters, One Large Spear Blade, Half Crowns, Polished and Etched, Two Combination Blades; Glazed Finish One Consists of Screw Driver, File and Wire Scraper, the Other Consists of Can Opener, Crown Opener and Chisel Or Leather Punch Key, Brass Lining Weight per Dozen 2½ lbs.**

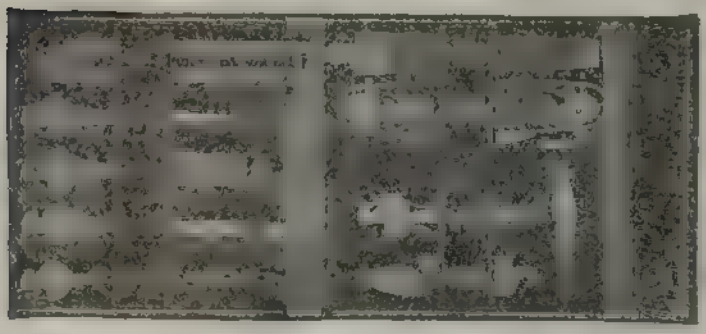
| | Per Dozen |
|---|---|
| **No. 3S407ST Patent Stag Handle** | **$22.00** |

Half Dozen in a Box

**Exclusive Western and Southern Distributers for the Product of the Empire Knife Co., Winsted, Conn.**

*"DIAMOND EDGES A QUALITY PLEDGE"*

# COMBINATION POCKET KNIVES AND TOOLS



Contains Nine Useful Tools, All Made of Tempered and Polished Steel Which Fit Firmly into a Pocket Knife Handle. Each Tool Perfect and Practical. All Packed in a Partitioned Leather Folding Pocket, Size 4x4 inches, with Glove Fasteners.

Per Dozen Sets

**No. 1810**—Anglo-Saxon Pattern, **Walnut Handle; Length 3⅛** inches, with One Fixed Spear Blade, Glazed; German Silver Scored Flush Bolsters; Iron Lining; with One Claw Hammer, One File, One Chisel, One Cork Screw, One Screw Driver, One Saw with Eight Teeth, Graduated on One Side in Inches and on the Reverse Side in Centimeters and Millimeters (Metric System), and One Can Opener . . . . . **$52.80**

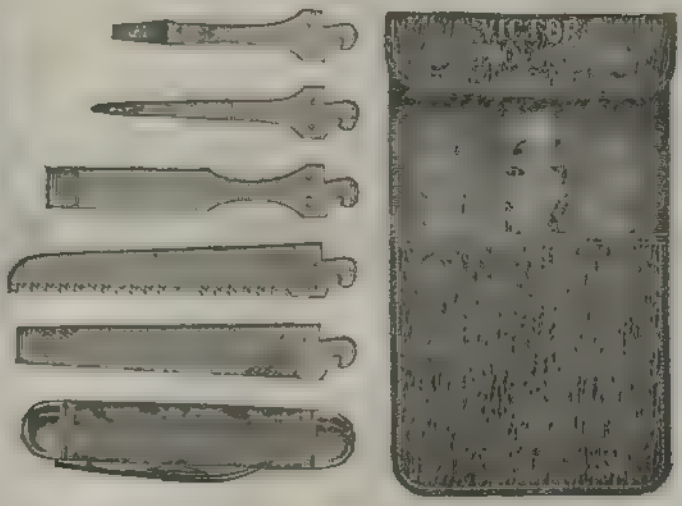
One Set in a Box; Weight per Dozen Sets 6 lbs.

Contains Five Useful Table Implements for Campers Use. All Parts Made of Best Tempered Steel, Highly Nickel Plated and Crocus Polished Which Fit Firmly into a Pocket Knife Handle. All Packed in a Partitioned Leather Folding Pocket; Size 3x4 inches; with Glove Fasteners

Per Dozen Sets

**No. 1**—Two Nickel Plated **Iron** Pocket Knife Handles; Length 3 inches; One Handle with Fixed Table Knife Blade, Glazed and Engraved; Other Handle with a Box Cork Screw and **Arranged for the Insertion of a Three Tine Fork, Table Spoon or Can Opener** . . . . . **$46.20**

One Set in a Box; Weight per Dozen Sets 6 lbs.



Contains Five Useful Tools, all Made of Tempered and Polished Steel, which Fit Firmly into a Pocket Knife Handle. Each Tool is Perfect and Practical. All Packed in a Partitioned Leather Folding Pocket, **Size 4½x3¾ inches; with Glove Fasteners.**

Per Dozen Sets

**No. 1888**—Anglo-Saxon Pattern, **Walnut Handle, Length 3⅞** inches; with One Fixed Spear Blade, Glazed; German Silver Scored Bolsters; Iron Lining; with One Saw, One File, One Chisel, One Screw Driver and One Reamer . . . . . **$30 80**

One Set in a Box; Weight per Dozen Sets 7½ lbs.

**Mechanics' Knife; Length 4 inches; German Silver Bolsters; One** Large Spear Blade, Glazed; One Pair Flat Nose Wire Cutting Pliers, One Reamer and One Screw Driver, Brass Lining; No Shield; Weight per **Dozen 3⅝ lbs.**

Per Dozen

**No. 3H—Patent Stag Handle** . . . . . **$24 20**

Half Dozen in a Box

**★J. KOESTER'S SONS, GERMANY**

Anglo-Saxon Pattern; Length 3⅝ inches; German Silver Flush Bolsters, One Large Spear and One Small Pen Blade; Half Polished, One Cigar Box Opener and Screw Driver, One Leather Punch; Brass Lining; German Silver Shield; Weight per Dozen 2⅜ lbs.

Per Dozen

**No. C4096ST—Patent Stag Handle** . . . . . **$19 80**

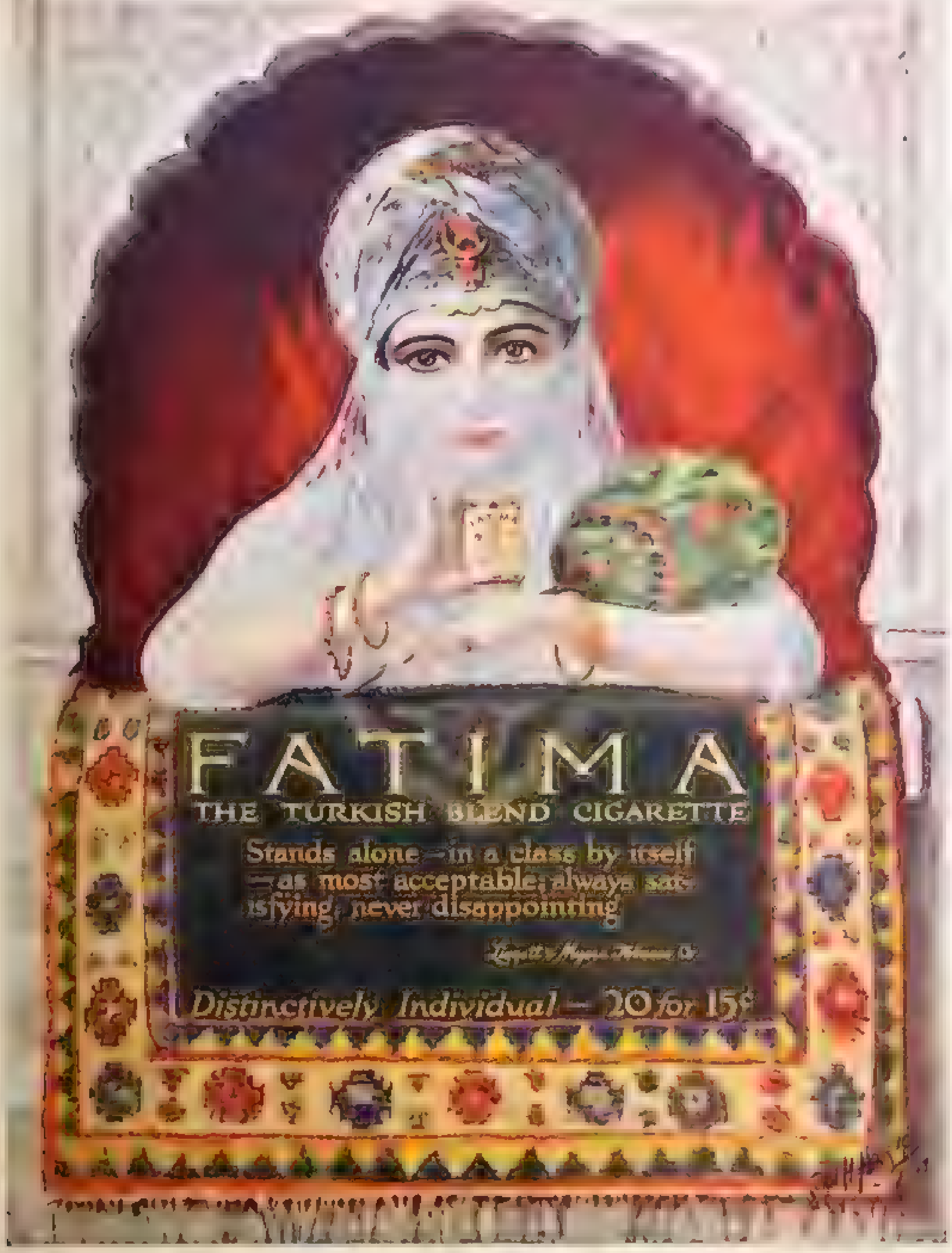
**★W. H. MORLEY & SONS, GERMANY**

Regular Jack Pattern; Length 3½ inches; German Silver Flush Bolsters; One Large Spear and One Small Pen Blade, Full Polished, One Can Opener, One Cork Screw, One Cigar Box Opener and Screw Driver, One Leather Punch; Brass Lining, No Shield; Weight per Dozen 2 ½ lbs.

Per Dozen

**No. 7838ST—Patent Stag Handle** . . . . . **$20 70**

Half Dozen in a Box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THE EMPTY D

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## What Is the Matter with Mr. Bryan?

A GREAT many people have expressed, and doubtless will continue to express dissatisfaction with Mr. Bryan. His personality, which carries upon its surface certain undoubted crudities, offers a fair mark for hostile critics, especially when so many of these critics have been lying awake nights trying to locate soft spots in the present administration.

But after all the sweeping denunciations of Mr. Bryan, most of them as general as they are defamatory, is there anything accurately definite enough to constitute a sum total of charges to his discredit?

The counts against him seem to be about as follows:

That his foreign appointments were grounded in personal and political motives.

That he has neglected his official duties in order to deliver undignified Chautauqua lectures for money to increase his income.

That he has burgled our foreign relations.

That he has been indifferent to the rights of American citizens in Mexico and abroad.

That, in general, he is entirely unfitted for his job.

None of these charges, which have all been exploited in the press, appears to be substantiated by facts. It would require but a superficial survey of the history of former Republican administrations to discover that clerical blunders, errors in political appointments, double dealing, incompetence and chicanery are by no means new in our political history. On the other hand, nobody has any reason to doubt that Mr. Bryan is honest, that he is clean, and that he has been one of the most potent factors for peace on this continent. There is, indeed, nothing to show that our foreign relations are not to-day upon a better basis than ever before. Mr. Bryan has the disadvantage of being a splendid subject for newspaper talk and jest, and a more or less grotesque picture of him has, through this journalistic irresponsibility, been gradually built up in the public mind. This conception of him has, unfortunately been fostered by his own defects. His very simplicity has a certain inelegance; his curves are such that no coatings of veneer sticks to him, and he appears to be deficient in a certain sort of useful Machiavellian hypocrisy. He lacks a sense of the public fitness of things, and his errors in taste are often intensely exasperating. He is also doubtless deficient in that sort of clerical application which comes from long apprenticeship to commercial technique.

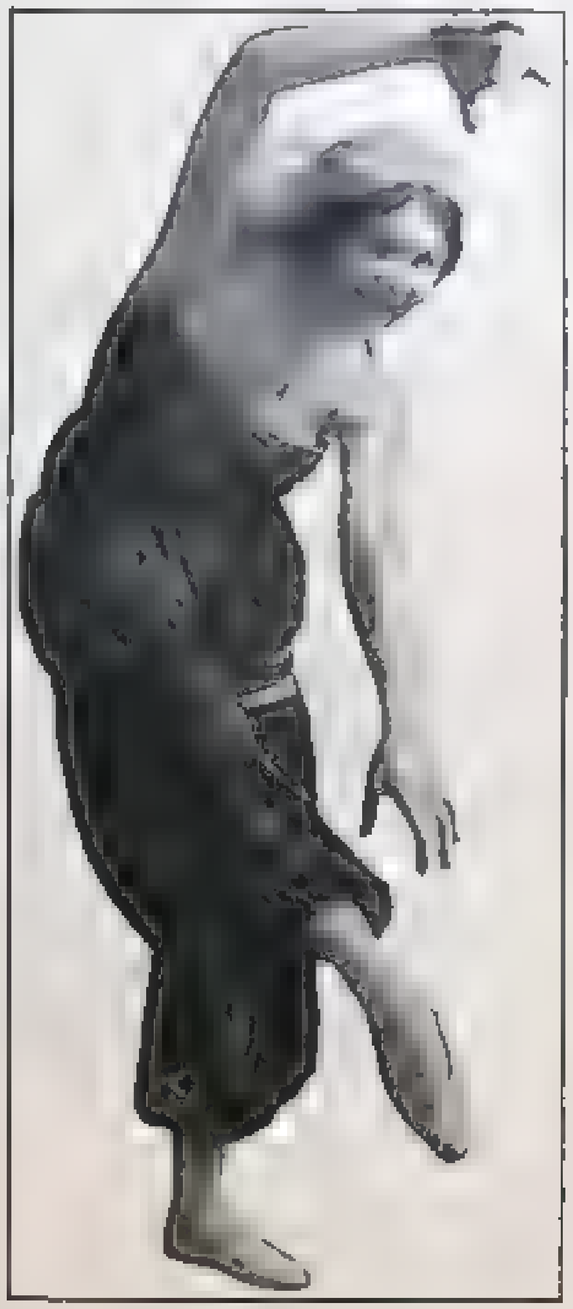
But every diplomat in Europe has these qualities, and in the tug of war what do they amount to? And isn't Mr. Bryan's scorn of dissembling his insistence upon peace, his moral simplicity really worth while reflecting upon just now as a very important asset of no mean value to Uncle Sam?

Away from the ordinary in Style and Quality



"The ANGELUS is the most artistic and delightful Player I have ever heard or used"

—*Lydia Lopoukowa.*



NO severer test of the wonderful possibilities of the Angelus Player-Piano can be imagined than its use in connection with interpretations of classic dances. The thousand instantaneous variations of tempo and rhythm which must be met; the necessity for following every mood and movement of the Danseuse, require a degree of responsiveness only possible with the Angelus. It is best expressed in the words of the artist herself:

"You wish my opinion of the Angelus. I gladly give it inasmuch as I use it for my work in rehearsing my dances.

The control of the tempo, the shading, what I call 'nuances' is almost beyond belief.

The different parts that you call the Phrasing Lever, the Melodant and the Diaphragm Pneumatics, all help to make the Angelus the most artistic and delightful player-piano I have ever heard or used.

Yours very truly,

*Lydia Lopoukowa.*"

Three of the world's most famous exponents of the classic dance, Lopoukowa, Kyasht and Pavlowa unite in proclaiming the superiority of the Angelus.

Its marvelous response to every nuance—by means of the Phrasing Lever; its exquisite delicacy of touch, through the Diaphragm Pneumatics, and its unrivalled control of melodic accentuation through the Melodant (all exclusive Angelus features) proclaim it the premier player of the world.

A love of music is all you need to play the Angelus.

Finger skill is not necessary—The Angelus will supply you with technical ability. By means of its simple expression devices you can play any music and play it well. You have not realized one of life's sweetest joys until you have had this pleasure.

Knabe-Angelus—Grands and Uprights.
Emerson-Angelus—Grands and Uprights.
Lindeman & Sons-Angelus—Uprights.
Angelus Piano—An upright made expressly for the Angelus.
In Canada—The Gourlay-Angelus and Angelus Piano.

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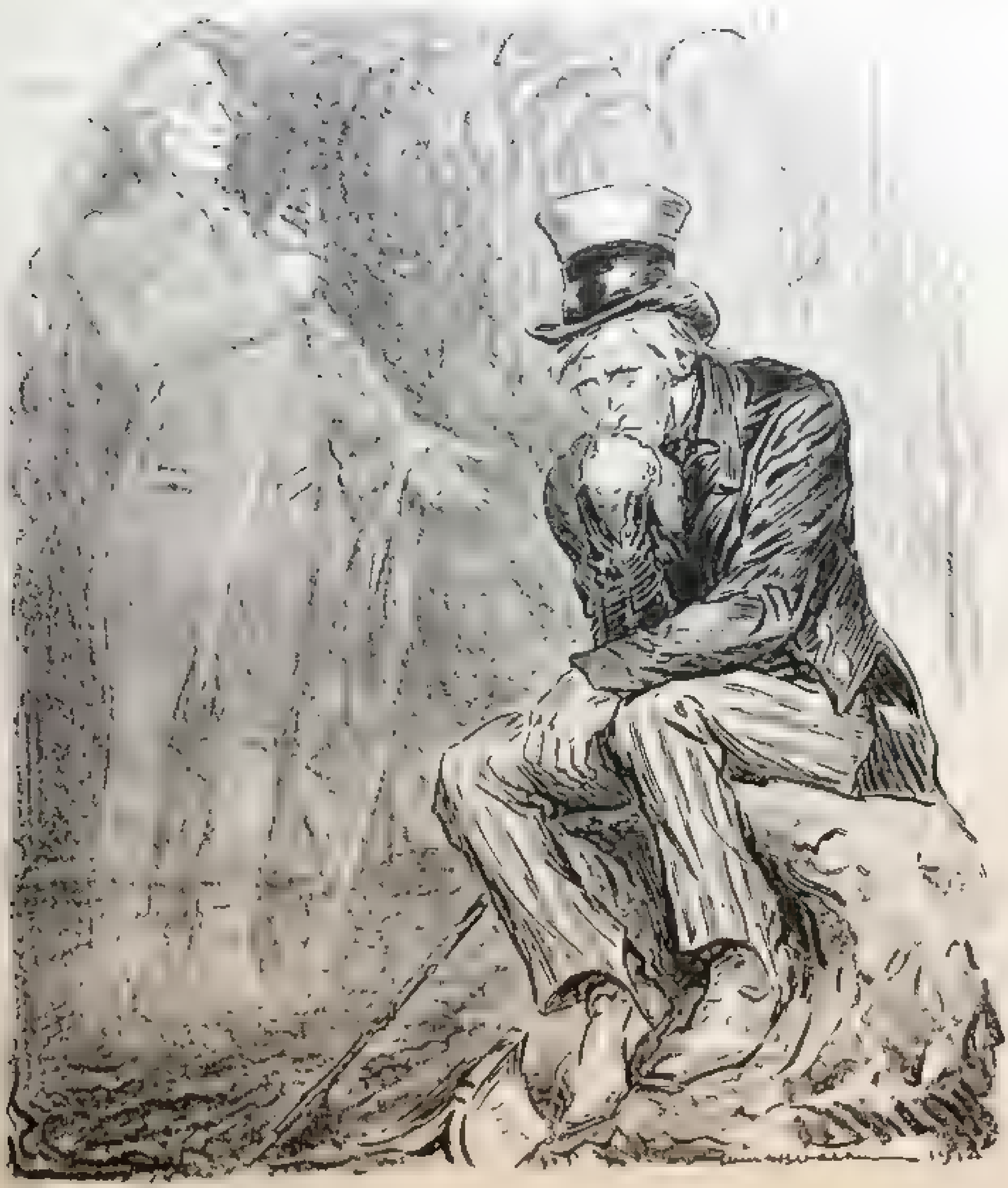

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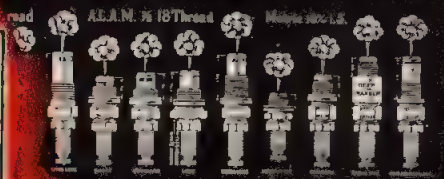


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*Will Outlast Your Motor*

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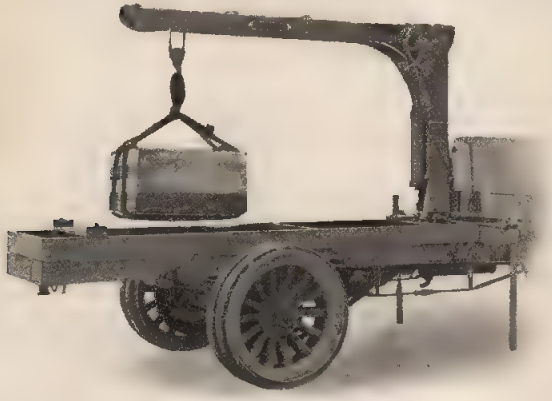
**MT. VERNON, N.Y.**

## The Brown Auto Truck Crane

To expedite the handling of heavy pieces by trucks, the Brown Hoisting Machinery Company, Cleveland, Ohio, is introducing a crane for this purpose, this crane being permanently mounted on the truck.

The illustration shows a Peerless truck equipped with a Brown hoist one-ton pillar jib crane, which has proven efficient in handling heavy loads to and from the truck The crane consists of a pillar and jib. The pillar is located in the center of the chassis, directly behind the driver's seat, and the hoisting and lowering of the load is accomplished by means of clutches, gearing and chain connections to the truck motor. The crane is built of structural steel shapes and rotates on a steel pillar casting bolted to the chassis. It is equipped with thrust roller bearings to give easier rotation. The hoisting shaft stands vertical, running from the top of the crane through the steel pillar down to the center of the chassis, where it is connected to the main hoisting shaft which, in turn, is connected to either the transmission shaft or a countershaft. The connection is made through roller chains working on sprocket wheels. There is an intermediate idler shaft provided, because the speed of the engine is too great for the hoisting and lowering of the leads. A single jaw clutch is provided on the transmission shaft or counter shaft, by means of which the crane mechanism is thrown into power. The main hoisting shaft is equipped with a double jaw clutch, which is operated by lifting or lowering the lever shown directly behind the driver's seat. This clutch throws either one of two bevel gears in mesh with the gear secured to the vertical hoisting shaft for hoisting or lowering the load as the case may be. At the top of the vertical hoisting shaft is a bevel gear which meshes with a gear secured to a horizontal shaft on which there is a chain sprocket wheel. A hoisting chain passes from this sprocket wheel, runs out along the jib to the trolley, from the trolley wheels over the sheave in the bottom-block, and is dead-are supported on wrought iron pipes when



**Brown One-Ton Capacity Auto Truck.**

Brown one-ton capacity auto truck in use The outriggers, supported by the wrought iron pipes, are used when the load is too great for chassis

opened on a pin in the end of the jib The dead-end at the hoist sprocket wheel falls into an open box located on the crane mast.

For hoisting the load the operator throws in his clutch on the transmission or counter shaft and then pulls the operating lever up to the hoisting notch, which throws the crane mechanism in power and the load is hoisted. For lowering the load, the operating lever is pushed down to the lowering position, which reverses the crane mechanism and causes the load to be lowered. By means of a safety lowering device, the load cannot be lowered without connecting up with the engine.

The crane jib is constructed of two channels, with flanges turned in and the crane trolley being equipped with four wheels run in and out on the lower flanges of these channels. The trolley is moved in and out by means of a hand chain and sprocket wheel. The crane with its load can be pushed around to either side by hand. The chassis is equipped with outriggers, which

the load is too great for the chassis. For further protection against any overloading of the chassis frame, if necessary the chassis can be reinforced by a structural frame on top as shown.

The crane can also be made for hoisting and lowering by hand, as well as by power, and can be applied to the various trucks on the market within the capacity of the chassis.

## Hoagland-Thayer Industrial Trucks

This machine, for use on docks, railway stations, etc., is the product of Hoagland-Thayer, Inc., 383 Halsey Street, Newark N. J. It is of nominal two tons capacity, although a heavier load could be safely handled when necessity demands. The battery is over the power axle, giving a very low loading platform.

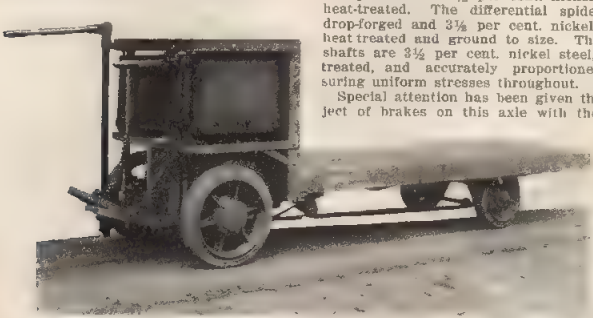
In all of these trucks a full floating power axle is used with universal joints in the live axles in line with the knuckle centers, which construction permits steering without affecting the transmission of power to the driving wheels. Double reduction spur gearing between motor and live axles, fully enclosed and running in oil, gives efficient power transmission and eliminates all end thrust. Ball bearings in wheels, motor, knuckles and jack shaft mountings keep the losses very low.

The motors are series wound with extra heavy and short leads. Continuous torque controllers with cast grid resistances, S. A. E. standard charging plugs and receptacles and Edison batteries are used

The steering levers are of the horizontal type and the controller handles have vertical movement with automatic neutral return and neutral check. The folding platforms for the operators are arranged to actuate a cut out (left) and brake release (right). That is, if for any reason the operator leaves the platform, the power is cut off and the brake applied. All trucks have three speeds forward and reverse.

All parts are readily accessible while protected from injury and standard material is used wherever possible and desirable. Four wheel steering permits of short turning radius and the construction used gives no noticeable power difference when running straight or turning corners.

Speeds are 5 to 6 m. p. h. loaded and 7 to 8 m. p. h. light. Weight is 2085 lbs



**Hoagland-Thayer Industrial Truck.**

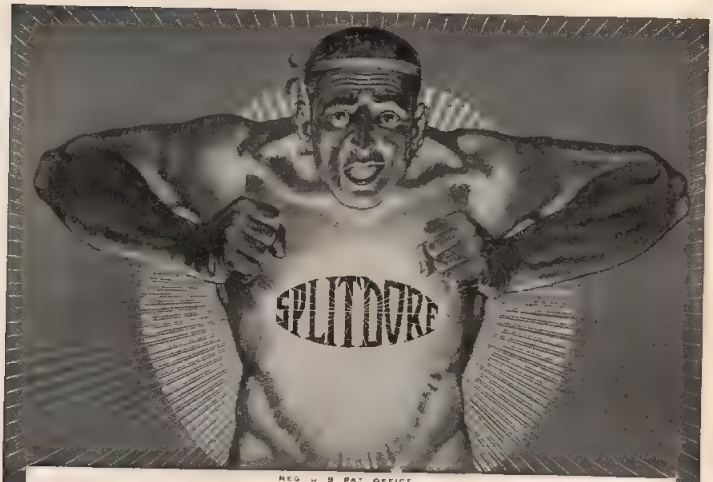
Two tons capacity, four wheel steer. The left folding platform for the operator actuates a cutout; the right, a brake, so that the power is cut off and the brake applied when the operator leaves the platform.

## Sheldon Three-Ton Worm-Gear Axle

The Sheldon Axle Company, Wilkes-Barre, Pa., is now shipping three-ton worm gear axles in large quantities to many of the prominent truck builders. This axle follows the same general design as previous models. The worm is made of special heat-treated steel and ground by special machinery. The worm wheel is cut from special formula bronze and by special machinery for this work. The worm and worm wheel is carried in a worm carrier a very substantial casting machined by special jigs and fixtures to receive the worm and worm wheel in perfect alignment. The methods employed in machining the worm carrier insures positive adjustment at all times and renders the assembly unit absolutely "foolproof."

Ball bearings are used throughout. The top of the worm gear carrier is drilled and tapped for an eye bolt to facilitate the removal of this unit, which contains the worm, worm wheel, radial bearings, thrust bearings, and differential bearings. The differential thrust bearings are mounted in the axle housing proper. All differential gears and pinions are 3½ per cent. nickel steel, heat-treated. The differential spider is drop-forged and 3½ per cent. nickel steel heat treated and ground to size. The axle shafts are 3½ per cent. nickel steel, heat-treated, and accurately proportioned, insuring uniform stresses throughout.

Special attention has been given the subject of brakes on this axle with the idea

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feature for feature, point for point. You are bound to conclude that not **one,** but **every** individual feature of the Victor Typewriter stands out as a point of superiority akin to perfection. . No matter what you want a writing machine for, a Victor fulfills the demand better than any other typewriter.

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You have manifolding work and stencil cutting—the Victor typebar strikes with a quick, sharp blow and so produces cleaner impression with the further advantage of a light touch.

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**Victor Typewriter Co.**
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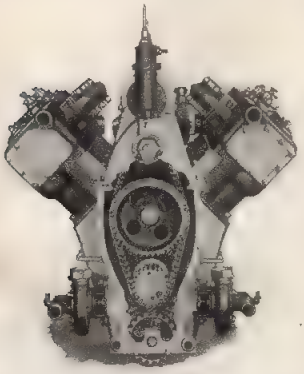
NEW YORK
and All Principal Cities

# Cadillac Eight-Cylinder Makes Its Bow as Type Fifty-one

## First of Its Type Marketed on This Side. One Crank Shaft and One Cam Shaft

IN announcing that its new car is powered with an eight-cylinder engine of the V-type, the Cadillac Motor Car Company, Detroit, Mich., becomes the first American manufacturer to develop an eight-cylinder car for the market. It is only after long and persevering pursuit of a power principle that would be ultimate and final that this radical innovation in the car's most vital unit has been adopted. As the "six" is superior to the "four" in having a steadier torque, so also, is the Cadillac claim, the new eight-cylinder V superior to the "six," in securing a more even torque by having eight power impulses to every two revolutions of the crank shaft, these power impulses occurring at every one-quarter revolution of the crank shaft. There is no pause or lapse between power impulses. The firing alternates from side to side.

The other advantages claimed are size, weight and cooling. The motor is not as long as a "six," this reducing periodic vibration of the crank shaft and leaving more room for body work. Again the crank shaft, cam shaft and crank case are shorter, resulting in a lower weight.

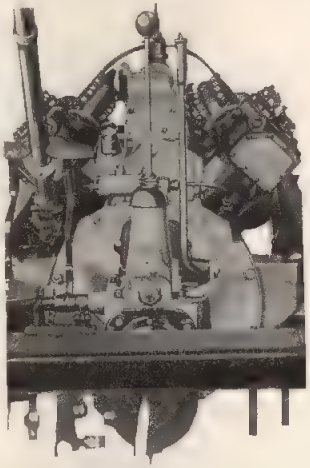


**Cadillac Type 51.**

Front view of motor with casing partly cut away, showing silent chain drive of single camshaft from crankshaft. Also two circulation pumps.

### Cooling.

In cooling, each block is considered a unit, because each set of cylinders may be cooled separately and due to the angle of the jack-



**Cadillac Type 51.**

Rear view of eight cylinder motor with clutch and transmission in unit.

ets, there is no chance for any of the water to get into pockets. The natural tendency is for the water to flow upward through the jackets. Further, the water tends to rise to the hottest points of the jackets.

### Thermostatic Control.

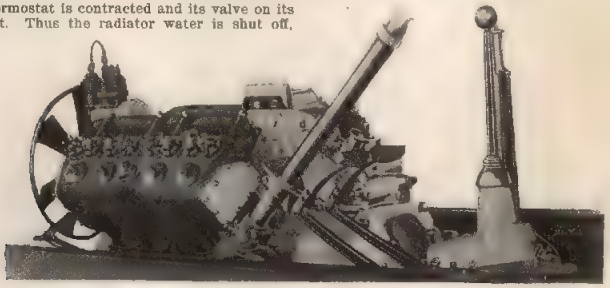
An entirely new feature is the application of thermostatic control to the temperature of the cooling water, so that in running the temperature. In principle, this thermo-water is maintained at nearly a constant static regulation is the same as the form used in connection with the heating systems of houses.

In the Cadillac application there is interposed in the water pump line for each set of cylinders a thermostat which is simply a small coiled copper tube containing a

liquid which expands or contracts in accordance with the temperature, thus slightly lengthening or contracting, its total movement being ¼ in. This thermostat is in connection with a valve, so that when it expands it raises the valve from its seat, this valve controlling the flow of water to the radiator from the pump. A by-pass connects with the water jacket of the carburetor, and when the engine is started the water is naturally cold. Therefore the thermostat is contracted and its valve on its seat. Thus the radiator water is shut off, the circulation being simply through the water jackets of the cylinders, through the by-pass to the carburetor jacket and thence back to the cylinders. There is thus only a small part of the water circulating, and when this heats up, the thermostat begins to expand and lifts its valve from the seat, letting the radiator supply flow into the system. This action continues back and forth, so that the water temperature is nearly constant.

### S. A. E. Horsepower 31.28.

Considering the Cadillac motor in detail, one is struck with the high speed, high efficiency machine which has been produced almost without precedent or previous experience with this type. The two sets of four cylinders are each block cast and present much the same general appearance as any other block of four. The bore is 3⅛ in., and the stroke 5½ in., giving a total piston displacement of 314 cu. in. The S. A. E. formula, which is really not applicable to this motor, gives it a rating of 31.28 h. p. On dynamometer tests it has developed 70 h. p at 2,400 r. p. m.

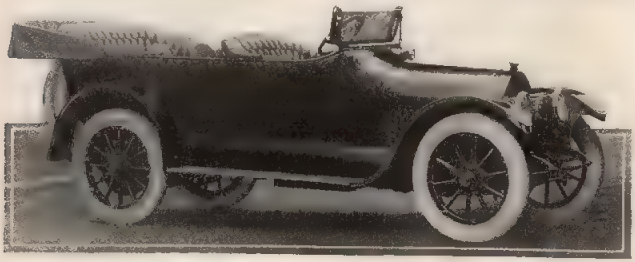


**Cadillac Type 51.**

Eight cylinder motor transmission, clutch, change speed levers, etc.

### Connecting Rods in Pairs.

The blocks of cylinders bolt to the copper alloy aluminum crankcase which is common to both, and which is split horizontally into upper and lower sections, the lower portion being the oil base. The upper half carries the crank shaft, which has three main bearings. Both sets of connecting rods connect to this shaft, one throw bearing taking care of a pair of rod ends, in opposite cylinders. In order for both to fasten to the same bushing, one rod has a yoked end, the other rod end fitting within two yoke arms. Two caps are thus required for the yoke rod, one for each arm of the yoke. These fit around the outer part of the bushing, gripping it



**Cadillac Type 51.**

Seven passenger touring $5,975 There is a striking resemblance to last year's car

rigidly, due to the cap bolts and, in addition, pins go through the rod into the bushing so as to insure the two moving together. The other rod fits around the bushing within the yoke, and is free to turn on the bushing. In operation the bearing for the yoke end rod is the inner surface of the bushing against the shaft, while that of the other rod is the other surface of the bushing. These bearings have babbitt linings in reinforced phosphor bronze shells. Thus there are four connecting-rod bearings on the crank shaft, just as a four-cylinder motor would have. The length of the crank shaft to the outer ends of the end bearings is 26½ in.

Directly above the crank shaft is the single cam shaft with eight cams, one operating two opposite inlet valves or two exhausts, as the case may be. The cam assembly is on the underside of a plate which bolts to the top of the crank case between the two blocks of cylinders. Pivoted to this plate also are the small arms which are interposed between the ends of the push rods and the cams, so that the lift will be straight upward instead of having a side thrust component. The cam shaft has five bearings.

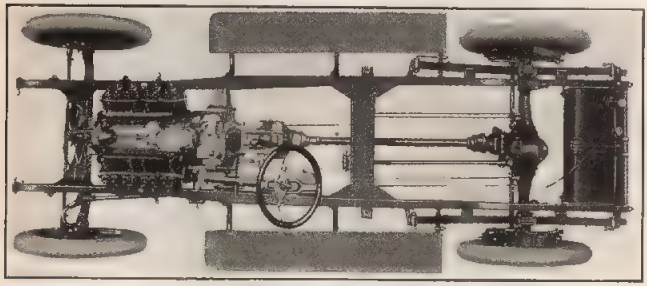
Vertically in line above the cam shaft and crank shaft is the generator shaft which drives the fan and the combined motor-generator mounted on top of the cam shaft plate and between the cylinder blocks, and also carries a gear which may be meshed with that of the tire pump carried at the forward end of the motor.

Both cam shaft and generator shaft are driven by silent chains completely housed at the front end. The cam shaft carries two sprockets, the outer carrying the chain running down to the crank-shaft sprocket and the inner driving the chain which passes around the generator shaft sprocket above.

At the front of the engine and below the crank shaft is a transverse shaft driven from the crank shaft by spiral gears. A centrifugal water pump is located on either end of this shaft, one taking care of each block of cylinders.

### Light Weight Parts.

To secure the accurate balance necessary to a high-speed motor of this type so that it will be practically free from vibration, the pistons and connecting rods are machined to very close limits. Uniformity of weight is important. Remarkable lightness of these parts has been attained due to the use of a special alloy steel for the rods which has great strength with extreme light-



**Cadillac Type 51.**

Showing the eight cylinder V motor in unit with multiple disc clutch and three speed, selective transmission, also the left side drive and center control

ness, and also to the special form of the cast iron pistons, each of which has three ring grooves with three thin steel rings per groove. The wrist pins are fixed in the connecting rods and oscillate in the pistons. They are constructed of chrome nickel steel tubing, case-hardened and ⅝ in. in diameter.

As another indication of the refinement to which this motor has been subjected, the inlet valves are of tulip shape so as to facilitate the intake of the gas, while the exhaust are of the flat type and of tungsten steel.

The Cadillac single-jet carburetor, especially adapted to this type of motor, is used. It occupies a position midway of the engine and between the cylinder blocks. A form of U manifold runs from it to the two cylinder blocks, the distribution to the various cylinders being done within the casting.

### Motor Lubrication.

As regards motor lubrication, the engine incorporates a positive system of force-feed type. A gear pump located at the forward end of the motor and driven from the crank shaft takes the oil up from the oil pan in the lower part of the crank case and forces it through a reservoir pipe running along the inside of the crank case, from which pipe there are leads to each of the main bearings. The crank shaft and webs are drilled and oil is forced from these main bearings to the connecting-rod bearings

through the drilled holes. The forward and rear bearings supply the rod bearings nearest them, while the center bearing takes care of the rod bearings on either side of it. The oil is then forced from the main reservoir pipe up to the relief valve which maintains a uniform pressure above certain speeds and overflows from this valve to a pipe extending parallel with the crank shaft and above it. Leads from the latter pipe carry lubricant by gravity to the cam-shaft bearings and front end chains. Pistons, cylinders and piston pins get their oiling by the oil thrown from the lower ends of the connecting rods.

As heretofore, the Cadillac uses the Delco combination electrical unit for cranking, lighting and ignition, the special eight-cylinder distributor being in unit with the motor generator. As has already been pointed out, the unit is driven as a generator from the cam shaft by a silent chain, its shaft being placed directly above the cam shaft. The generator runs at camshaft speed. At the rear end of the generator is the train of gears which mesh with the teeth in the flywheel rim for cranking purposes. These gears are not in mesh unless the starter pedal is depressed, and the reduction between electric motor speed and engine speed is 25 to 1. The Delco unit temporarily becomes an electric motor in the usual way of cranking

**Wheelbase 2 In. Longer.**

The Cadillac changes this year are not all in the motor, for the chassis is altered considerably also. The wheelbase has been lengthened from 120 to 122 in., while left drive and center control replace right drive and control. The hinged steering wheel, which was an innovation last season, has been retained.

In the transmission system a big alteration appears in the incorporation of the gearset in unit with the motor instead of locating it amidships as heretofore. The same type and design of three-speed sliding gearset is used, however. The cone clutch has also given way to a disc clutch of the dry plate type. This has fifteen carbon steel plates 7¾ in. in diameter, the driving plates, eight in number, being faced with wire mesh asbestos. This construction has resulted in an exceedingly soft-acting clutch.

A floating type rear axle which is similar in general construction to that formerly used is employed. This axle is, however, of the latest form, in that worm bevel gears replace straight bevels for the ring gear and driving pinion.

Standard equipment includes Cadillac "one-man" top, windshield, full lamp equipment, black enameled, nickel trimmed; gasoline gage, electric horn, power tire pump, foot rail, robe rail, license tag holders, tire irons, tool box with locks, set of tools, including tire repair kit; universal key fitting tool box and ignition and lighting switch, Warner autometer,

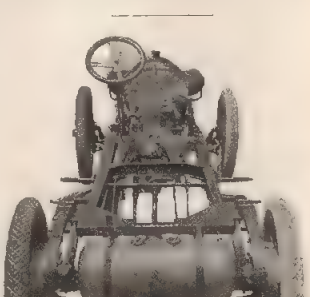
A variety of bodies are offered on this chassis, the five-passenger touring car selling at $1975; the seven-passenger touring car, shown in an accompanying illustration, at $1975; a two-passenger roadster, with a collapsible rumble seat for a third in the rear deck, at $1975; a four-passenger salon, at $1976; a three-passenger landaulet coupe, at $2500; a five-passenger Sedan, at $2800; a seven-passenger limousine, at $3450, and a seven-passenger Berline type limousine, at $3600.

## The Auto-Bob

This is a real miniature automobile for boys from 10 to 15 years old. It is built to carry 500 lbs., is built on raceabout lines, weighs about 225 lbs. and has a speed of 15 to 18 m. p. h. Assembled and painted it sells at $150; knockdown, $130.

The motor is 3-5 h. p., air-cooled; water-cooled being $10 extra. Transmission is a four-speed friction. Drive is through chains from jack shaft to rear wheels, which are 20 in. wooden. It has standard auto type steering, seats two, and is equipped with three lights, mechanical horn, tools, extra spark plug, etc.

Optional equipment is wire wheels, at $10 extra; Prest-O-Lite or electric lights, at $10; swivel type searchlight, $5; self-charging electric storage battery outfit, $25. Standard color is battleship gray; with other colors, $1 extra. It is produced by Jack Hickman, East Liberty, Pittsburgh, Pa.



**Keystone Chassis for 1915.**

Rutenber 55 h. p. six-cylinder motor in unit with Warner four-speed transmission and gear shift, Bosch magneto, Remy electric starter and lighter; Stewart-Warner vacuum-gravity gasoline system; floating rear axle; Schwarz wheels; 138 in. wheel base. This chassis was designed by Chas. C. Snodgrass and is built by H. C. Cook and Brothers, Pittsburgh, Pa.

# New Hupmobile Larger—Price Remains the Same

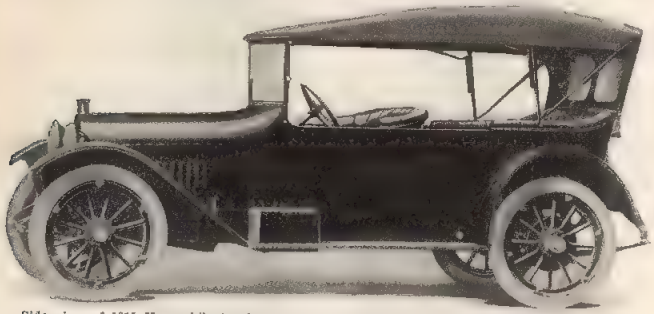
## 1915 Product Has More Power, Longer Wheelbase and Greater Passenger Capacity.

Taking as their working basis a chassis which for three years has remained unchanged in essentials and which has proved itself right in principle, the Hupmobile engineers have devoted themselves, in the 1915 product, to refinements that tend to increase the mechanical efficiency of the car and to add greatly to the comfort and ease of the passengers.

The net results of their work may be summed up in the statement that the 1915 Hupmobile is a bigger car, has more power, carries five passengers with more comfort, presents satisfying evidence of painstaking attention to detail, and a real wealth of equipment. The price is $1200.

The wheelbase of the new Hupmobile is 119 in. long, the result being 2 in. more leg room in the front compartment and 7 in. in the tonneau. Upholstery is full tufted, and the wider seats have the same comfortable tilt that has characterized Hup cars for three years.

Wheels are larger, tires being 34 x 4 in., with non-skid treads regular equipment for the rear wheels. Other regular equipment includes a Hup design of one-man top, which when raised attaches rigidly to fixed uprights of the windshield; new style top cover that conceals the bows when the top is laid back; rain-vision windshield, with lower half adjustable for ventilation of the front compartment; special design headlights, with one bulb which can be dimmed at will and special glass front, with the upper half corrugated to kill the reflector



Side view of 1915 Hupmobile touring car with one-man top up. The wheel base has been increased, other details enlarged, but the price remains the same as before, $1200.

Side view of 1915 Hupmobile Roadster. The rear deck is used for carrying spare tires. The wheels have been increased to 34 x 4 in. with non-skid. regular equipment on the rear wheels.

glare; special design tail light; electric horn, demountable rims, spare rim and carrier at the rear, license plate holders at front and rear, robe and foot rails in tonneau.

An increase in power is gained through larger valves, an increase in the bore and a different shape combustion chamber. The Hupp Company was one of the first American manufacturers to use the small bore, long stroke type of motor, and this is continued, the bore being 3⅜ in. and the stroke 5½ in. The carburetor, of the horizontal type, is moved to the right side of the motor, and the gas carried through a passage between the cylinders, assuring complete vaporization. Storage battery ignition, with automatic spark advance, replaces the magneto.

**Motor Non-Stallable.**

The motor is made non-stallable through being connected at all times by a silent chain with the Westinghouse combined generator and starting motor, the single unit system having replaced the dual unit used for 1914. The voltage of the electrical system is increased from 6 to 12 volts.

Body sides are higher and the doors are wider, having the handles inside and flush with the door upholstery.

Easier riding is assured by the use of longer front springs and long rear springs of the semi-elliptic type.

The front axle is of the Elliott type, with a slight castor effect which makes steering easier and gives the wheels a tendency to resume a straight course after turn has been made. The rear axle remains the full floating type, with a new design housing which makes the gears more readily accessible

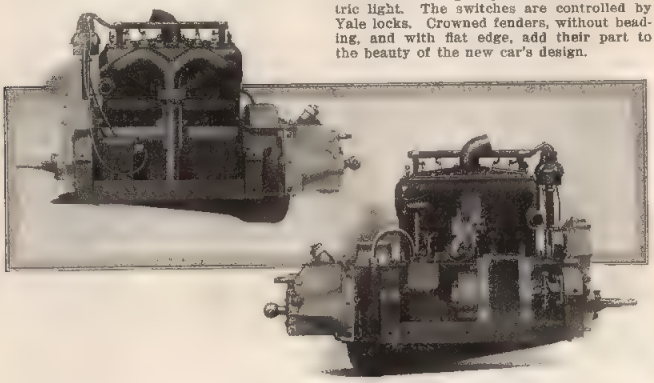
Steering is now from the left side, with an 18 in. steering wheel, while the gear change and hand brake levers remain in the center

**Model 32 Continued.**

The gasoline tank is increased in capacity to 16 gallons, with the filler cap under the hood, to avoid a break in the smooth lines

Rear view of 1915 Hupmobile, showing tire carrier and special tail light.

that sweep back from the new shape radiator to the windshield. The cowl board carries, in the center, the lighting and ignition switches and the speedometer, which are illuminated at night by a small hooded electric light. The switches are controlled by Yale locks. Crowned fenders, without beading, and with flat edge, add their part to the beauty of the new car's design.



**The 1915 Hupmobile Motor.**

Having a bore of 3⅜ in. and stroke of 5½ in. The carburetor has been moved to the right side and the gas is carried through a passage between the cylinders.

Front view of 1915 Hupmobile Note Holo plane head lights and castor effect of front axle

The Model 32, which has just completed its third season, and which has proved the most popular model the Hupp Company has yet produced, is to be continued. Its characteristics are well known and are the foundation on which the model K has been designed. Along with these innovations come others that have since been widely adopted by manufacturers, such as placing the gasoline tank in the cowl of the dash, driving the magneto and camshaft with a single silent chain, horn concealed under hood, etc.

The cam shafts and motor generator are driven from the front end of the motor, instead of the rear, as heretofore. The same Coventry silent chains are used, and are easily adjusted for tension without taking off the chain cover.

The cellular type radiator now has a capacity of five gallons. The gasoline tank is under the cowl as heretofore, except that the filler spout is concealed under the hood.

## The Enger Six-50 for 1915

The Enger Motor Car Company, of Cincinnati, Ohio, has announced its Six-50 model for the coming season.

The power member is a long stroke, powerful motor with cylinders cast en bloc, having a bore of 3½ in. and a stroke of 5 in. The valves are enclosed, but are easily accessible.

Ignition is by Atwater-Kent automatic advancing Unisparker and also manually operated silent type ignition, giving a hot spark at all speeds.

Cooling is by a centrifugal pump, utilizing a square tube, genuine honeycomb radiator with adjustable belt-driven fan.

The Rayfield carburetor is mounted on the motor in an accessible position. A dash adjustment is provided for cold weather starting

### Clutch and Transmission.

The transmission is of the three-speed selective sliding gear type, contained in an oil tight case and bolted direct to the motor, forming a rigid unit power plant.

The clutch is of the multiple disc type.

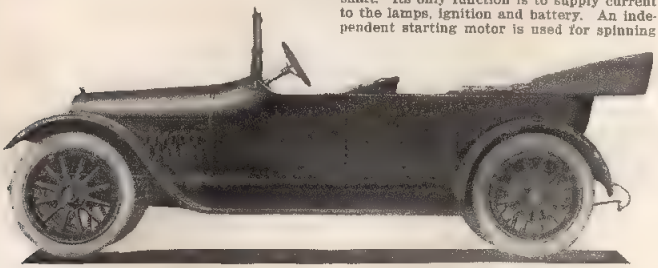
The rear axle is of the floating type, extra heavy for the car. The wheel driving shaft is easily withdrawn.

The brakes are of the expanding and contracting type, faced with special heat-treated friction material and fitted with equalizing adjustments.

The wheels are of the artillery type, have bossed spokes, fitted with Firestone demountable rims, 34 x 4 in., and have Firestone tires. The light weight, 2865 lbs., makes the tires well oversize.

### Starting and Lighting System.

A separate, independent, self-regulating generator is direct connected to the pump shaft. Its only function is to supply current to the lamps, ignition and battery. An independent starting motor is used for spinning



**The Enger Six-50 Touring Car.**
With 124 in. wheelbase, six cylinder motor, 3½ x 5 in., electric lighting and starting, multiple disc clutch and floating rear axle. The price is $1495, fully equipped.

the motor. The starting switch is mounted on the motor, simplifying the wiring.

**Other Details.**

The steering gear is irreversible and is adjustable for wear. It is fitted with a polished ebony wheel.

Bodies are of the streamline type, following the graceful lines of latest European design. A roomy six-passenger body, seating capacity for seven passengers, is provided. Two seats fold up out of the way.

The speedometer is a Stewart-Warner, of latest model. An electric indicator is also on the dash. All dials are electrically illuminated.

The top is a five-bow, one-man, mohair top, complete with patented, quick adjustable curtains.

The price of the car is $1495, fully equipped.

## The Herreshoff Light Car

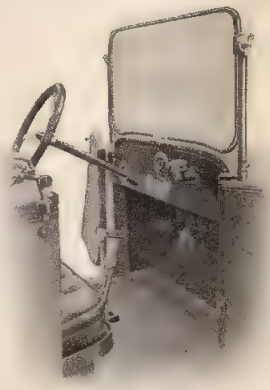
The newest product of the Herreshoff Light Car Company, Troy, N. Y., is the Herreshoff Light Car, selling at $500. The car is designed by and manufactured under the personal direction of Charles Frederick Herreshoff, the noted automobile and yacht designer. The officers of the company are: President and chief engineer, Charles F. Herreshoff; vice-president and general counsel, Northrop R. Holmes; secretary, A. L. Johnson; sales manager, V. D. Lersh; consulting engineer, H. P. Jones. The capital of the firm is $100,000 and the product will be marketed through the Herreshoff Motor Sales Company, Troy, N. Y.

**Motor.**

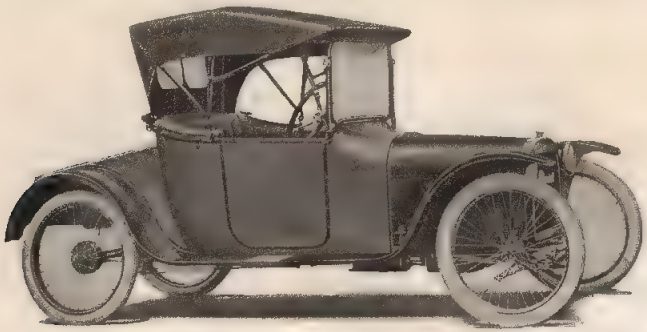
The motor is of the L-head type, with four cylinders, cast en bloc. The bore is 2⅝ in. and stroke 3¼ in., developing 16 h. p. Thermo-syphon system of water cooling is used.

**Principal Changes.**

The principal changes that have been made on this car since we described it in our March, 1914, issue are as follows: Annular ball bearings are used on the cam shaft. An Entz electric starting and lighting system is used. The transmission is equipped with ball bearings throughout. The steering gear is of Herreshoff pattern. Brakes operate on drums located on the rear wheels. The weight of the complete car is 900 lbs. The other details are pretty much the same.



**Herreshoff Driving Compartment.**
Interior view of the driver's compartment showing control elements and dash gages.

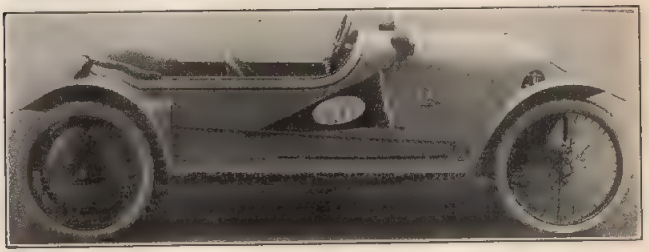


**The Herreshoff Light Car.**
The new model exhibits many changes in the way of mechanical refinements, although the price is continued at $500.

# The Steco Cyclecar

By careful designing and construction, the designers of the "Steco" cyclecar have produced a vehicle of distinctive individuality. The form and appearance of its graceful stream-line body makes an immediate appeal to all who demand a style with quality. It has an appropriate body design and a unique method of construction giving unusual strength and stiffness. The car is the product of the Stephens Company, 7329 Bond Boulevard, Chicago, Ill.

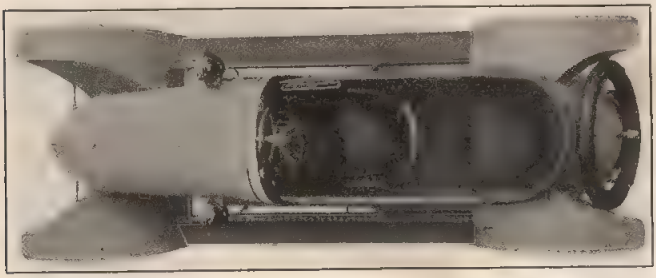
The tandem seating arrangement, giving 24 in. width of elbow room and large comfortable seating space for each passenger is an agreeable surprise on first riding in this car. A bucket form of seat of the most comfortable shape is used in front for the driver, while the rear seat and back support is of the same shape and size as a comfortable chair; both seats are covered with genuine leather of the best quality, smooth finish and deep upholstery spring cushions. A tool box 4½ x 8 x 22 in. occupies the space under the driver's seat, and room for storage of clothing, etc., 4½ x 16 x 22 in. is provided under the rear seat, while in the rear end of body is a locker for storage battery, and ample additional room for storage of other material, this space being accessible only through a door fitted with lock in the back of car body. These storage spaces give ample accommodation required for touring.



**Side View of Steco Cyclecar.**
Note the well designed lines, tandem seating arrangement and handle of pull starter.

The frame is ash, side members being built up with cross members and through bolts. The formed steel body of the car is attached solidly to this frame, thus making a box girder form of construction of great strength, supported from three points by equalizing transverse spring suspension in front, and two Lanchester type cantilever springs in the rear. Chrome vanadium steel is used to insure reliable service.

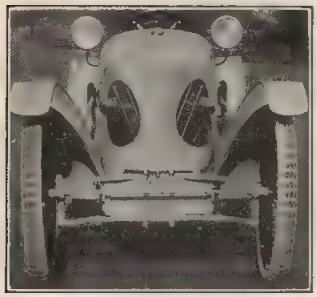
The car is thoroughly protected from mud and dust by a complete equipment of substantial guards and aprons over the wheels, and running boards on sides which give easy access without weakening the structural strength by door openings.



**Plan View of Steco Cyclecar.**
Note the complete protection for occupants and the full length running boards.

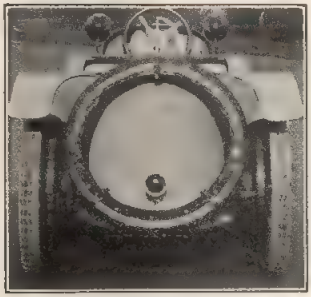
The steering wheel spider and all exposed control levers and attachments, filler and hub caps are polished aluminum or heavily nickel plated.

The operation has been reduced to the acme of simplicity—the engine is started from the seat by a hand attachment on the side of the car connected to a device which automatically releases in case of back kick from over-advance of spark. Spark and throttle levers are conveniently fitted on



Front of Steco.
Note the protruding cylinder heads and the absence of axle.

quadrants on the steering wheel. The tubular steering column passes through a bearing mounted on the center of instrument board to a pinion and quadrant gear under the hood, from which a shaft is extended direct to the linkage of steering knuckles. An accelerator pedal, electric horn contact, clutch and brake pedals, are fitted on foot board. The brake pedal is arranged so that



Rear of Steco.
Note the door to the luggage space in the rear of the body.

its use automatically releases the clutch, and also provides an automatic locking device which prevents friction gear being thrown into contact when speed change lever is in neutral position.

This machine has the usual other mechanical units: a two-cylinder, V motor, developing about 10 h. p., friction transmission, giving four speeds forward; V belt drive; wire wheels, 28 x 3 in.; electric lights, fed from storage battery. Price is $450. The tread is 36 in. and the wheelbase 102 in.

## The Pacific Cyclecar

This is a representative of the far West hailing from Portland, Ore., where it is built by the Portland Cyclecar Company, 302 Corbett Building.

The motor is a 13 h. p., two-cylinder Spacke of 3 9-16 in. bore and 3¾ in. stroke

Side View of Pacific Cyclecar, $395.
A parcel delivery body is furnished at $410

The carburetor is a Schebler, ignition by Atwater-Kent system.

A planetary transmission is employed, giving two speeds forward and one reverse. Final drive is by belt.

Axles are tubular, with 42 in. tread, and expanding brakes in rear hubs of the 28 x 3 in. wire wheels, 28 x 2¾ in. being used in front.

Semi-elliptic springs suspend the front, with full-elliptic in rear. Frame is oak with steel gussets and angle plate. A mechanical starter is provided. The gasoline tank is 8½ gals. capacity, under cowl. Wheelbase is 96 in., and ground clearance 12 in.

## The Davis Light-Car Motor

This engine for light cars and cyclecars is four cylinder, water cooled, en bloc, 2¾ x 4 in. It is produced by the Davis Manufacturing Company, Milwaukee, Wis.

It has a 1¾ in. crank shaft, crank pin bearings 1½ in. long, with two main bearings. The cam shaft is also two bearing and 1 in. diameter. The cylinder head is removable. Cooling is thermo-syphon system. The Atwater-Kent ignition distributor is driven by a spiral gear on the end of the camshaft, gearing enclosed.

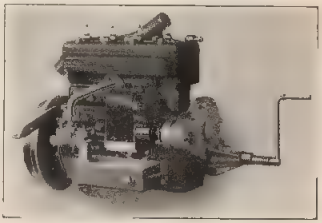
The flywheel is attached by four ½-in. bolts and provision is made to take a transmission in the form of a unit power plant. Lubrication is by constant level splash system. The carburetor is a Zephyr.

**Front of Davis Light Car Motor.**
Note cross mounting of Atwater-Kent distributor.

## Sterling Cyclecar and Light-Car Motor

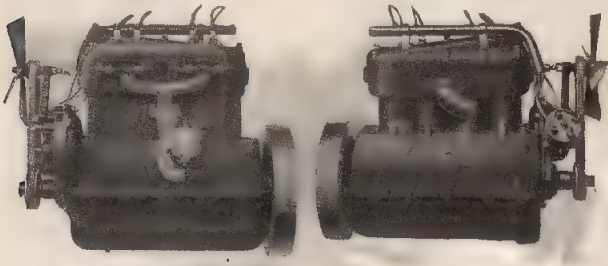
A four-cylinder water-cooled motor for cyclecars and light cars is being offered by the Sterling Motor Company, Detroit, Mich. It has 2¾ in. bore and 4 in. stroke, and is cooled by the thermo-syphon system.

Crank case and cylinders are cast en bloc from a special grade of cast iron, light and strong, with head cast separately.



**Business Side of the Sterling Cyclecar and Light Car Motor.**
Showing mounting of magneto and carburetor, and enclosed valves.

Crankshaft is drop forged from special steel and is of ample size to resist strains and twists. Connecting rods are light and strong, drop forged from special steel and double heat treated. All bearings are die cast from heavy pressure babbitt. All bearings except connecting rods are cast in



**Left and Right Sides of Davis Light Car Motor.**
Clean cut appearance and complete enclosure of working parts are noteworthy.

separate moulds. Connecting rod bearings are die cast with pressure in the rods.

Cam shaft is drop forged, all cams integral with shaft, with ample bearings, and is treated by a process which gives a glass hard surface to the cams. Oiling is by vacuum system. Clutch is cone type, leather faced. Ignition is by either magneto or distributor.

There are two crank shaft bearings; front is 2¼ in. long and 1 17-32 in. diameter; rear is 3 in. long and 1¼ in. diameter. The front cam shaft bearing is 2¼ in. long and 1 15-16 in. diameter; the rear is 1⅞ in. long and ⅞ in. diameter.

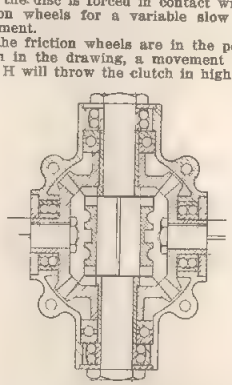
A sliding gear selective transmission may be had with the motor. It gives three speeds forward and reverse. The gears, ⅞ in. face, are high carbon nickel steel. The main shaft is carried on annular bearings, counter shaft on bronze bearings.

## Double-Friction "Direct-Drive" Transmission for Cyclecars and Worm-Drive Motor Trucks

The purpose of this transmission is to give a direct drive on high with lower and reverse drives by the friction members. Reference to the illustrations explain the operation.

A steel frame is cast integral with the outside bearing casing and an extended portion of this frame supports the tubular cross members F. F., which are below the friction wheels and are rigidly fastened to extended portions which are an integral part of the central gear box. The speed lever G is fastened to the shaft D, which is mounted in bearings integral with the steel frame. The starting lever H is fastened to the shaft C, which is also mounted in bearings integral with the steel frame. These levers may be fastened to any required position on their respective shafts. E is a sliding sleeve in which the supporting bearings for the disc shaft is mounted; two connecting rods are attached to suitable levers on the shaft C and in such a way that a movement of the lever H will draw the sleeve back and forth through the frame box. With this movement the disc is forced in contact with the friction wheels for a variable slow speed movement.

If the friction wheels are in the position shown in the drawing, a movement of the lever H will throw the clutch in high speed



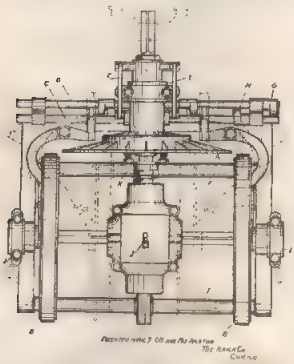
Section of Gear Case of Krick Transmission.

with a direct shaft drive to the rear axle of the vehicle. This action of throwing the lever H in high speed also throws the lever J to a neutral position with all the friction slow speed drive parts out of service.

Referring to the cut showing the inside of the gear case, the bevel gears are keyed to the square friction wheel shafts and are in driving contact with the two clutch bevel gears on the main shaft. The middle portion of this main shaft is milled square on which a clutch is adapted to slide and at the same time is in driving contact with it. If the clutch is moved in driving contact with one of the clutch bevel gears mounted on the main shaft, power is transmitted from the friction wheels to their respective square shafts on which the driving bevel gears are mounted and a forward movement is given to the main driven shaft. If the clutch is moved in driving contact with the other clutch bevel gear, a reverse movement is given to the main driven shaft.

If the clutch is moved midway between the two clutch bevel gears, it is in neutral position and the main driven shaft may be driven direct from the motor with the friction parts cut out of service.

It will be noted that the clutch bevel gear when in action is driven by two bevel gears, one on each side, and with equal driving force, this does away with side thrust



Plan of Krick "Direct Drive" Double Friction Transmission.

and at the same time doubles the usual number of gear teeth in driving contact with the work divided on each side of the bevel gears. This method of bevel gear construction gives a more lasting and a more uniform wear to the working parts. All the working parts are enclosed in a covered case and packed with grease. Self aligning double row ball bearings are provided for all the rotating parts.

The friction wheels are provided with square holes and are mounted and slide on square shafts. The frame is fastened by a three point suspension, or rigid if desired. This transmission is built by the Krick Company, 1373 E. 55th Street, Chicago, Ill.

## Wood Rim Steering Wheels for Cyclecars

American Wood Rim Company, Onoway, Mich., is offering the cyclecar a small, light and durable steering wheel, sizes being 14 and 16 in. outside diameter, and 1⅜ and 1¼ in. oval section, and made of straight grain, hard maple, bent and laminated.

In manufacture, a strip of maple the required length is steamed fifty minutes and then wound around a drum, inside of a steel strap. The ends of the strap are then clamped together, and the bending allowed to dry in a low-degree dry house. Then ends of the bending are then dove-tailed and glued, a clamp being attached at the joint, holding it secure until the glue is perfectly set. Two bendings are required to produce one rim. The outside of one bending is turned on special lathes to fit the inside of the other, after which they are

American Wood Rim Steering Wheel for Cyclecars.

glued together, and put away to dry. After thorough drying, the laminated bending is then turned to size and shape desired, after which the now perfect rim is stained, either walnut, rosewood or ebony. Several coats of finish are applied, with rubbings between each, and drying in low-degree heat dry room. The rim is then screwed on the type of spider specified of which there are several kinds, brass, aluminum and pressed steel with aluminum hub cast in. The pressed steel spider is enameled black. The spider hub is then machined to fit the steering post column, and the only thing necessary to do is to set the wheel on the columns. In order to get the weight and cost down to a minimum, a three-arm as well as four-arm spider is produced. The construction gives ample strength, and is very light and neat in appearance. The accompanying cut gives a very good idea of the wheels. The company can, when desired, furnish these wheels with rims made from genuine American black walnut, bent and laminated, genuine American black walnut, circassian walnut and mahogany sectional type.

## The Maco Cyclecar Carburetor

The main object in designing the "Maco" has been to produce a carburetor that the average car owner could not fail to understand, and one that could be adjusted so as to get the maximum efficiency with the least amount of adjustment, at the same time having all the necessary features for perfect carburetion.

The carburetor can be taken apart by simply unscrewing the nut at the permanent

Maco Cyclecar Carburetor Disassembled.

air intake. There are but two adjustments, the gasoline for low speed, and the auxiliary for high speed, and these, once regulated, become permanent.

The float chamber is radial and can be turned to any position to bring the gasoline connection to the side most convenient to the supply tank. The spray nozzle is directly in the center of the float chamber, which insures a constant fuel level in any position of the engine, whether the car is hill climbing or not, and the direct central draft gives a clear and unobstructed passage from the intake to the manifold.

The venturi tube in the constant air supply is so placed as to create a strong vacuum just above the point of the spray nozzle, and, by also increasing the speed of the incoming air at this point, insures a good charge of gasoline, and breaking it up into the finest possible spray. The needle adjustment is at the top, and the most convenient place for any type of engine, and the point of the needle being inserted in the top of the spray nozzle spreads the gasoline as it is drawn from the nozzle, and greatly assists in vaporizing it. A perfect mixture is automatically obtained for any degree of speed, and the engine can be kept under complete control by the throttle alone.

The connections to the manifold are made either horizontal, vertical, or flange as may be required, and the carburetor is made in the following sizes: ¾, 1, 1¼ and 1½ in This carburetor is being placed on the market by the Gleason-Peters Air Pump Company, 255-61 Classon Avenue, Brookline, Mass.

## Ball Planetary Transmission for Cyclecars

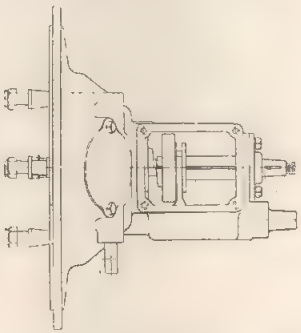
New York Gear Works, 56-58 Greenpoint Avenue, Brooklyn, N. Y., is offering the cyclecar manufacturer planetary transmissions in two types; one giving two speeds, but no reverse; the other giving a reverse with the two speeds. Both are enclosed type.

The type without the reverse is $40 without differential and $65 with it. The gears are 8-10 pitch, steel, box hardened and bronze bushed. Shafts are machinery steel. The unit weighs 50 lbs. without and 90 lbs. with differential. Connectors are furnished for the brake bands, as are also shifting forks for high speed cone.

The type with the reverse has bevel gear differential for side chain drive.

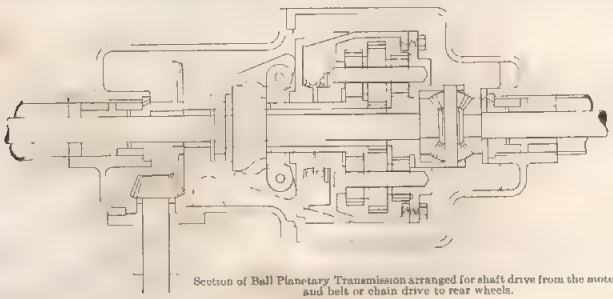
## New Fuller Transmission Suitable for Light Cars and Cyclecars

Fuller and Sons Manufacturing Company, Kalamazoo, Mich., is producing a two-speed forward and reverse selective sliding gear transmission. The case is No. 12 aluminum alloy, weighing less than 12 lbs. Gears are



Top of Fuller "LV" Transmission

9-16 in. face; annular and bronze bearings are used. The Raybestos faced multiple disc clutch has saw blade steel discs and is ball bearing throughout. Transmission complete weighs less than 25 lbs. It can be operated from right or left side of car or from the center.



Section of Ball Planetary Transmission arranged for shaft drive from the motor, and belt or chain drive to rear wheels.

## Continental Model "U" Motor for Light Cars

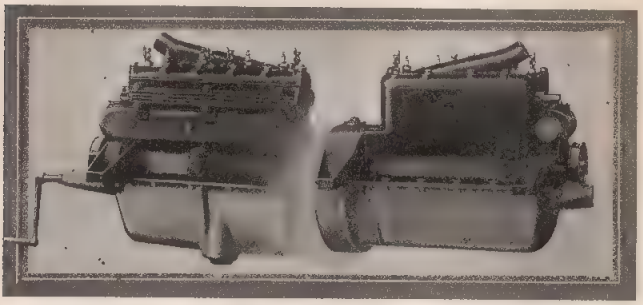
In response to the demand for a small high speed light car motor the Continental Motor Manufacturing Company, of Detroit, Mich., is announcing a new model, which is the result of an exhaustive study of the present small car conditions. This newest and smallest of Continental motors will be furnished in the unit power plant type only and, in accordance with regular Continental practice, is adapted to several of the standard makes of clutch and transmission units. Having a bore of 2¾ in. and a stroke of 4 in., this motor will develop the S. A. E. formula 12.1 h. p., but under actual brake test should show from 15 to 18 b. h. p.

In designing this motor the Continental engineers have given special attention to accessibility and simplicity of design. It will be noted that the upper half of the crank case and cylinder block are cast integral, permitting lighter construction and at the same time affording greater strength. The cylinder head is removable, permitting easy access to the valves and pistons. The lower half of the crank case or oil pan proper carries at its forward end the complete starting crank assembly, including the crank. Ignition is by magneto, which is mounted on the front end and coupled to a spiral gear driven cross shaft. It will be seen that this leaves both sides of the motor free from accessories with the exception of carburetor, which is of the side outlet type, bolted direct to the cylinder flange.

The thermo-syphon system of cooling is employed and in casting cylinders and crank case as a unit the water jackets are carried the full length of the cylinder bore, thus insuring efficient cooling under all possible conditions. The crank shaft is of the three-bearing type, all bearings being 1½ in. in diameter.

The valve mechanism is entirely enclosed by a pressed steel cover running the full length of the cylinder block. Suspension is on four supporting arms cast integral with the crank case

Lubrication is by combined force feed and splash systems. The weight of the Model "U" is approximately 250 lbs., exclusive of transmissions.



**New Continental Light Car Motor.**
Left side shows the ribbed exhaust manifold and the single pressed steel cover of the valves. Right shows bracket for cross-mounted magneto and general clean appearance.

**Morse Cyclecar Electric Lighting Outfit.**
Two side, one tail and a trouble lamp, complete with switch, plug, etc., list at $8, same, with speedometer lamp and No 982 or 992 switch, $10. Separately the side lamps sell at $2.25; tail lamp, $.75; trouble lamp, $1.25. Bulbs are 6-V, 2 c. p., finish polished nickel or black enamel. Marketed by Frank W. Morse, Boston, Mass.

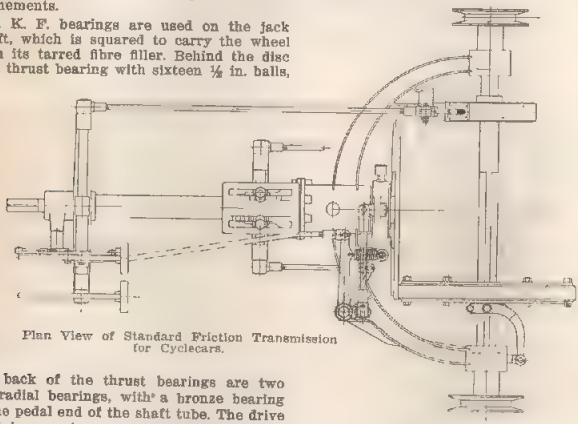
## Standard Friction Transmission for Cyclecars

Standard Transmission Company, Flint, Mich., is offering the cyclecar manufacturer a high-grade friction transmission, which operates on the regular principle with some refinements.

S. K. F. bearings are used on the jack shaft, which is squared to carry the wheel with its tarred fibre filler. Behind the disc is a thrust bearing with sixteen ½ in. balls, and back of the thrust bearings are two 306 radial bearings, with a bronze bearing at the pedal end of the shaft tube. The drive shaft is one piece, extending from the disc to the engine coupling, making it impossible to tilt the disc.

The wheel and disc are engaged by turning the bearing sleeve, which moves in the yoke housing. The bearing sleeve has a spiral groove, in which a pin with a roller works. The turning of the bearing sleeve either way cams the disc in or out.

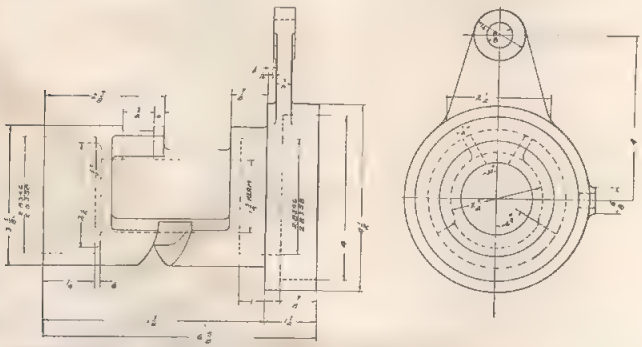
All castings are malleable iron, the disc and wheel being cast iron. All levers are drop forgings. But two bolts are required to secure transmission to the frame. The unit is complete with clutch pedal, brake pedal, speed lever and hand lever for emergency brake.



Plan View of Standard Friction Transmission for Cyclecars.

**Fuston Cyclecar Company,** Nashville, Tenn., has taken the agency for the Trumbull cyclecar.

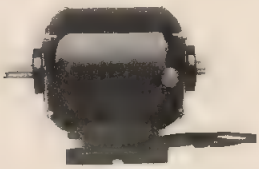
**Scripps-Booth Cyclecar Company,** Detroit, Mich., has increased its capital stock from $50,000 to $150,000.



Details of Spiral Groove in Bearing Sleeve for Engagement of the Disc and Wheel.

## Ward-Leonard Electric Lighting System for Cyclecars

The Ward Leonard Electric Company, of Bronxville, N. Y., appreciating that small cars such as cyclecars, etc., will have a lamp load of not more than 5 amperes, has therefore developed for this trade a special lighting system. It is identical in its construction and method of operation with the larger outfits used on big cars.



Dynamo of Ward Leonard Cyclecar Lighting

The dynamo delivers 6 amperes at 1800 r. p. m., weighs less than 9 lbs. and is small and compact. The controller for the dynamo is a separate constant ampere control type, used on the larger generator outfits of the Ward Leonard Company, light and small. This controller also embodies the automatic battery switch.

The constant ampere control system has advantages, one of which is that with a constant ampere charging system a smaller charging battery can be used. This Ward Leonard cyclecar equipment is claimed to be the smallest, lightest, most inexpensive properly operated lighting system on the market.

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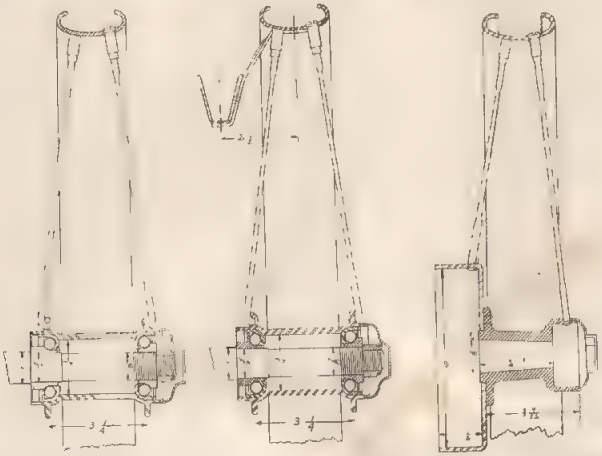
## Wire Wheels for Light Cars and Cyclecars

Universal Welding Company, St. Anne, Ill., is producing wire wheels for these new vehicles. Both front and rear are furnished, the rear for shaft or belt drive.

The front has standard steel hub, spindle having 1 or 2 in. butt, and being 15-16 and ⅞ in. diameter at cones. There are thirteen ⅜ in. high duty balls in each bearing and protected by a felt dust washer. Spokes are Standard Company's swaged, 148 or 125. Rims are standard clincher. Finish is full black enamel and nickel plated dust caps. Samples are $10 per pair, with special quantity prices.

The belt driven rear wheels differ from the front in having 14 or 18 in. pulley for 1⅛ in. extra heavy V belt and being $14 per pair for samples.

The shaft driven rear wheel has malleable steel hub; pressed steel brake drum; 148 or 125 spokes; same finish as others; price is $11 per pair, samples, with special quantity prices. Bore can be changed on quantity orders if sufficiently large to warrant changing tools.



Section of Universal Welding Company's Wire Wheels for Cyclecars. Left is front wheel; center, belt driven rear; right, shaft driven rear.

## Cyclecars Make Great Showing in Reliability Run

The first Cyclecar Reliability Run in America was held under the auspices of the Cyclecar Club of New Jersey, on September 5, 6 and 7, from Newark, N. J., to Atlantic City and return, a distance of about 300 miles.

The start was made from the club headquarters at Newark, at 10 o'clock on Saturday morning, September 5th. About a half-dozen light cars with driver and official scorekeeper in each car made the start. All told, there were 26 cars entered, and while only about a half-dozen started at headquarters, others joined on the way.

The first day's run took the party through Elizabeth, New Brunswick, White Horse, Bordentown, Columbus, Burlington, Camden, all in New Jersey, and then across the Pennsylvania R. R. ferry to Philadelphia, Pa. Here the party stayed at the Windmere Hotel, for night control, supper and the stay over night.

On September the 6th they left Philadelphia and crossed over to Camden and from there followed the White Horse Pike and the Egg Harbor road to Atlantic City, stopping at the Wagner Hotel for lunch, check, and noon control. The entire afternoon was at the disposal of the contestants to use as they saw fit. To many the ocean looked good—yes, and felt good. On Labor Day the return trip was made, leaving Atlantic City about 8 o'clock. It was a little after 8 o'clock when four dirty light cars, with four weary drivers and score keepers arrived in Newark, four survivors from a field of nineteen contestants. Those who finished with a perfect score were G. A. McLaren, of Newark, driving a Twombly; Charles A. Coey, of Chicago, driving a car of his own called the Coey Bear; Harry Seward, of Rutherford, N. J., driving a Twombly, and Edward W. H. Riepel, of Ridgewood, N. J., driving a Zip.

For the last two days of the run it had been a battle royal between McLaren and Coey. The gasoline consumption for the majority of the contestants was thirty-five miles to a gallon.

## Lincoln Highway Association Issues Official Guide

The Lincoln Highway Association has issued from its national headquarters an official tourist guide, which not only shows the exact route of the Lincoln Highway, but the improved main connecting roads from every section as well. The map is printed on a heavy map cloth and folds into small space so that it can be easily slipped into the inside pocket of the coat.

Thousands of motorists who are contemplating a trip over the great transcontinental route will appreciate a copy of this practical guide, which settles for all time the question which has been confused in some minds, as to the exact location of the route of the Lincoln Highway in each locality, as well as the best way of getting to it from outlying points.

A copy of this tourist guide may be obtained by sending $.25 to the Lincoln Highway Association Headquarters at Detroit, Mich

**The Metropolitan Section** of the Society of Automobile Engineers held its thirty-sixth regular meeting on Thursday evening, September 24th, at the Automobile Club, 247 W. 54th Street, New York City. L. Greenwald's paper indicating the causes and effects of tire abuse was read and illustrated by stereopticon views.

**The Panama-Pacific International Exposition** is not to be postponed because of the war in Europe; it will open on the scheduled time—February 20, 1915, and will be completely ready when open. The management states that nothing will be allowed to interfere with the consummation of the plans originally laid down, which plans are nearly at fruition.

Start of First Cyclecar Reliability Run in America.

## New Sales and Service Branch of the American Electric Car Company

The American Electric Car Company has opened a large and elaborately appointed sales and service branch at 2634-2636 Michigan Avenue, Chicago, Ill. The new facilities for securing and handling the electric car business of Chicago leaves nothing to be desired. Every convenience for salesmen and attaches, and every comfort for patrons has been provided in the new branch, a picture of which is here shown.

The front of the service department is fitted up to provide a comfortable waiting room for customers on repair work, or for those waiting for cars which require only minor repairs.

A feature of the service department is an electric service truck. This is completely equipped to make emergency repairs where necessity arises for repairs to a customer's car on the road.

The stock room is in the rear of the waiting room, adjoining the repair and service departments proper. The repair department is equipped with all the latest power ma-

New Chicago Sales and Service Branch of American Electric Car Company. Every convenience for customers and salesmen is embodied in these new quarters at 2634-36 Michigan Avenue

The front portion of the north half of the building is devoted to the display of electric cars, which includes the complete line of Argos, Brocs, and Borlands—twelve to fifteen cars. Ample room has been provided to prevent crowding and permit of a thorough inspection of every car from all sides.

In this same section are the salesmen's quarters, with desks so located to enable them to give customers prompt attention at all times. Each salesman's desk is equipped with an individual 'phone to enable all to keep in close touch with their prospects.

The general office, and that of the manager, are located in the rear of the salesroom, and back of these is the display of used cars and the service department for the care of demonstrators. The entire south half of the building is devoted to the service department to which much attention has been paid.

chine tools for the completion of a repair job of any magnitude. A complete stock of parts is carried.

Four Musical Cates and Their Car Fitted With Woodworth Treads.

These four brothers are traveling musicians, who use the trailer to carry their instruments, baggage, etc. They found that the trailer caused their tires to wear out very quickly. Since adopting Woodworth Treads no tire trouble has been experienced.

# The Oakland "37"

By Len G. Shaw

THE statement of one enthusiast after viewing the new Oakland "37" that "It's all new but the nameplate" was stretching a point a bit. Nevertheless, the fact remains that in the light four which is now coming through and which is a continuation of the popular Model "36," Chief Engineer N. E. Wahlberg has introduced features so pronounced as to approach an entirely new car. All the good points of the old model have been retained, and an unusual number of strong points added. Briefly there is offered a streamline body with greater roominess, more power, stronger construction, and a marked reduction in weight. The "boat" body design adopted by the high grade European cars has been modified and improved with very pleasing effect

New Oakland Model 37, 5-passenger Touring Car.

The Oakland Motor Car Company, of Pontiac, Mich., will build only two chasses for 1915—Model "37," the light four above mentioned, and Model "49," a six-cylinder that outwardly bears a strong resemblance to the four, although on a larger scale.

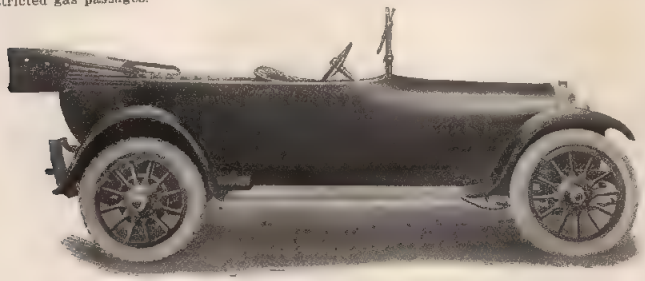
Examination of Model "37" discloses much to commend it. There is a newly designed frame, considerably narrower at the front, and diverging from a point opposite the rear of the motor in such a way that the greatest width is at the extreme rear. Rear springs are directly under the frame members, the scroll being enclosed through the gusset plate. This does away with the customary overhanging brackets, and takes the strain in this quarter off the cross members. Another feature in this connection is that the body is supported at the side panels throughout its entire length, eliminating the use of side aprons on the car, and the squeaks that prove so annoying. While weight has been reduced elsewhere, the strength of the frame has been appreciably increased. It is of 4¼ in. channel steel, the width of the section having been increased ½ in.

In spring suspension a change is noted. The rear springs, 48 in. in length, are underslung. The former practice of having the parts underslung has been abandoned. Instead they are now slung over the axle, which is dropped to an extent that gives a low center of gravity and causes the car to hug the road. The front springs are 36¼ in. long.

### Motor.

Refinements are noted in the motor, which develops greater power and is lighter, this change having been effected while at the same time it has been strengthened wherever such a move was deemed advisable

The 3½ in. bore and 5 in. stroke still prevail, but the motor is now characterized as nigh speed, operating up to 2500 to 2800 r. p. m. and developing 39 h. p. on block test. The increased power has been brought about by enlarging the valve dimensions and by a specially designed camshaft whereby the lift of the valves is increased. Specially designed manifolds also insure against restricted gas passages.



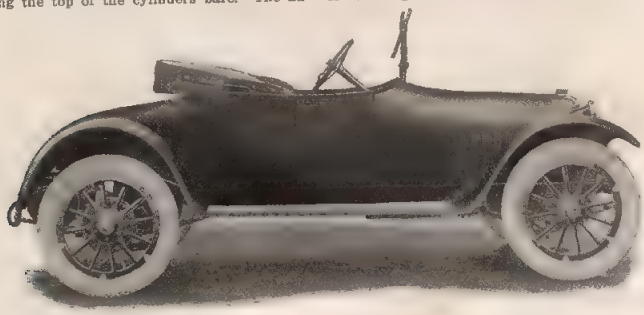
New Oakland Model Six-49 7-passenger Touring Car.

Ingenuity is disclosed in the arrangement of the throttle valve whereby there is no danger of starving the cylinders at one end of the motor. In place of the ordinary plan of mounting the throttle valve at right angles with the motor, it is arranged parallel to the crankshaft, so that each cylinder receives an equal amount of gas. It is claimed for this plan that it makes for greater smoothness in the running of the motor.

Accessibility to the pistons, inside of cylinders and to the valves is a conspicuous mark of the motor. It is cast en bloc, with cylinders of L-head type. The head is a separate casting, secured by a number of holding bolts that are easily taken out, laying the top of the cylinders bare. The advantage of this method when it comes to removing carbon deposits of itself is sufficient recommendation. Valves are of Tungsten steel, all on the left side of the motor, and are interchangeable. Dust proof covers enclose them, with leather vents. To attain the greatest possible strength with the least weight the pistons have been crowned on top. Each piston is fitted with nine perfection rings. These are of thin carbon steel, three to each ring slot. They have square joints, and because of the small wearing surface, after the motor has been run a short time, they lap themselves into the cylinders in such a manner that the gas has to leak through nine places before any compression is lost, rendering such a possibility practically nil.

Intake and exhaust manifolds are both on the left side, the former being placed below, which brings the carburetor in a convenient position.

Crankshaft bearings are of generous proportions, the front being 1⅝ x 3⅝ in., center 1⅞ x 2⅝, rear 1 15-16 x 3 11-16. Connecting rod bearings measure 1⅝ x 2¼ in. All bearings are of special Babbitt.



Right Side View of New Oakland Model 37 Roadster.

Cooling system incorporates a centrifugal water pump located on the generator shaft just ahead of the Delco electrical unit, the water being forced into the center of the jacket on the right side. The V front radiator that is a distinguishing mark of the Oakland is retained, the projecting front being even more pronounced. The radiator has 20 per cent. larger capacity than last year. It is of the fin and tube type, and is very narrow, permitting it to more easily take the strain due to frame twists when uneven roads are encountered. The top tank is extra large, and together with the projecting front gives the added capacity.

The latest type of Delco combination electric unit is located on the right side of the motor. When operating as a generator it is driven from the front gear. Used to turn the motor over in starting it drives the flywheel through a gear train. The ignition distributor is integral with the main electrical unit. It is of 6 volt single wire type with grounded return circuit, a very simple and efficient design.

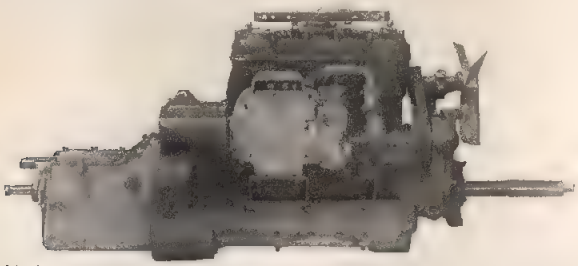
### Automatic Spark Advance.

The automatic spark advance is entirely mechanical. It consists of a centrifugal governor that automatically advances the spark when the motor is speeded up. This automatic advance operates within a fixed range, but in the event of the hand spark lever being moved up the entire range the automatic advance also moves up.

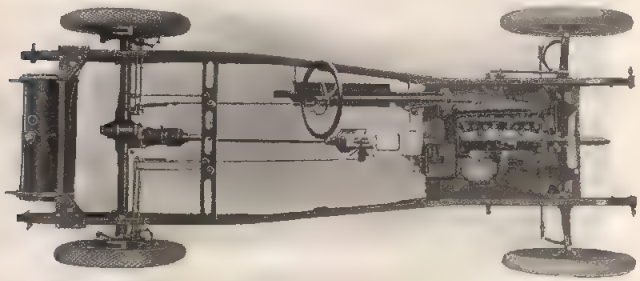
### Electrical Devices.

The current controlling device also is purely mechanical. It consists primarily of an arm wiping a brush over a coil wound in such a manner as to cause maximum current output at low car speed. The battery is always kept charged to its full capacity regardless of the way the car is handled. An Exide storage battery of 80 ampere hours capacity is carried under the front seat, being a part of the regular equipment.

Only headlights are used, these being fitted with dimming attachment. An automatic device disconnects the electric horn when the ignition is switched off or locked. This prevents the horn being used when the car is idle. To guard against short circuiting a circuit breaking relay is employed, that in case of a "short" eliminates the rapid discharge of the storage battery and emits a loud click as a warning that a short circuit has occurred. The relay is placed



Right Side View of Model 37 Oakland Motor showing Delco lighting and starting system.



Top view of Model 37 Oakland chassis showing tapering frame, power plant, etc.

with the control unit. A buzzer apprises the driver of the fact if the ignition switch is accidentally left on when the car is not in use.

### New Arrangement of Gear Shifter.

A feature exclusive with the Oakland is a device applied to the gear shifting lever whereby numerous bearings are done away with, with their attendant grease cups, and quietness is assured. The same principle is also applied on the brake rods, clutch shifter and throw out, and brake rocker shafts under the center cross member. It incorporates a series of rollers on which the shifting levers move, instead of the customary rigid bearing surfaces.

### Clutch.

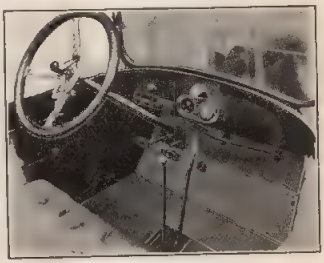
The Oakland cone type clutch, with six spring inserts, has been continued, with the addition of an oiling device for the clutch shifting collar. Hotchkiss drive is employed on this year's model, drive and torque being taken by the leaves of the rear springs, which act as a cushion when the car is started quickly or brakes suddenly applied. In this manner gears and bearings throughout the entire drive mechanism are favored, it being claimed that fully 50 per cent. is added to their life.

Instead of a solid shaft, as used last year, the drive shaft is tubular, with a 1½ in. outside diameter and ⅛ in. wall. The ends of the universal joints are electrically welded to the ends of the propeller shaft, the latter being of seamless steel tubing.

Roller Bearing System of center control and emergency brake lever assembly on Oakland car

### Rear Axle.

The rear axle is of full floating one-bearing type. Wheels and differential run on Hyatt roller bearings, and New Departure bearings are used to support the short pinion shaft. The axle shafts and gears are nickel steel. Gear ratio is 4 to 1.



Model 37 Oakland dash, showing center control and convenient arrangement of lighting and starting switches.

### Vacuum Gasoline Feed.

The pressure feed formerly employed has been supplanted by the Oakland Stewart Gravity Vacuum gasoline system, with which all the advantages of gravity feed are obtained and the gasoline tank is still placed at the rear of the car and below the level of the frame.

### Other Details.

Seats in the Model 37 are wider and more room is provided in the driving compartment. Equipment is unusually extensive, among the new features being a one-man top and two-piece rain vision windshield. Crowned fenders are used. Nothing is carried on the extra wide aluminum covered running boards, the tool box being placed under the front seat, with access from the tonneau. Tires are 33 x 4 in. non-skids in rear.

Model 37 sells for $1,200. It is furnished in five and two-passenger body.

Model 6-49 is a seven-passenger touring car with a wheelbase of 123½ in., two disappearing auxiliary seats being placed in the tonneau. It follows closely the lines of Model 37, although larger in every respect.

The Oakland Northway motor has been improved in several respects, and will develop 55 h. p. on brake test. The frame tapers, is of heat treated pressed steel, 4¾ in. channel, single drop construction, with springs underslung front and rear. The rear axle is one bearing, full-floating, with shaft drive, the torque being taken by a pressed steel torque arm. Gear ratio is 4 to 1.

Standard Delco electric and Stewart vacuum gasoline systems are used on this model. Tool box is located on the dash underneath the cowl, and in addition to standard equipment a mechanical tire pump is supplied.

In addition to the seven-passenger, a roadster and speedster are furnished. The price is $1,685—$100 less than last year.

# An Eight-Cylinder Cadillac

***The matchless mode of motoring reserved to only a few privileged persons in the Old World (at an almost prohibitive price) developed by the Cadillac Company for American motorists!***

Serious-minded motor car manufacturers have sought the ideal power principle for fifteen years.

The Cadillac Company has never relaxed for a month, a week, or a day, its patient pursuit of that underlying principle which would prove to be ultimate and final.

In the course of that long journey toward perfection, the Cadillac Company has given serious consideration to every reputable type of motor—endeavoring to scrutinize with scientific impartiality the virtues and the limitations of each and every one alike.

Building and experimenting in turn, with every type from the single-cylinder to the six, and from the poppet to the rotary and to the sliding valve, we have been carried forward irresistibly, by the impetus of our own research, to the highest form of frequent-impulse motor—to V-Type Eight-Cylinder.

It is admitted, we believe, that this Company produced in the four-cylinder field, a succession of cars which earned the title "Standard of the World."

This requirement pointed straight to an Eight-Cylinder Cadillac with four power impulses during every revolution of the flywheel.

How fully these luxuries of travel have been achieved, nothing but your first memorable ride in the new Cadillac can reveal.

As the Cadillac softly speeds along under the almost magic influence of this new power-principle, you become oblivious to the wonderful mechanism which gives you motion. The sensation is as unique as though you had never motored before—the sense of floating through space comes to you as it never came to you before.

It is useless to try to depict in words, thrills which you have never felt—or to portray a degree of ease which you have never experienced.

Good roads yield up a velvet quality of travel undreamed of.

Bad roads lose much of their terrors, and hills seem almost to flatten out before you —so easily, so quietly, and with so little effort does the car surmount them.

Beyond that, loomed for us only one hope and possibility—the promise of a motor in which there would be *no* lapse, *no* pause, *no* hesitation between impulses, but an overlapping of strokes so complete as to produce a flow of power almost literally liquid in its continuity.

We sought the medium by which the Cadillac would be endowed, not with *approximate* freedom from gear shifting, or *approximate* hill-climbing ability on high, or *approximately* swift acceleration, but with the *highest possible form* of these three characteristics.

The Cadillac already possessed those qualifications in an extraordinary measure, but we wanted them developed to a point *beyond which it was not possible to go.*

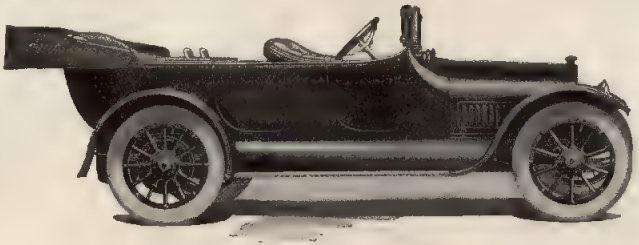
In operation, you enjoy the extreme of flexibility—from less than three miles an hour in crowded city streets and congested traffic to more than sixty miles an hour on the open highway, without change of gears.

Comfort is subserved in the highest degree by the absence of vibration and the pronounced flexibility—and, again, by the yielding springs; the ease with which the car is handled and controlled; the smoothness of the worm bevel driving gears; the soft clutch action and the exceptional sense of rest and relaxation.

The supreme motoring experience of your life awaits you when you take your first ride in this truly remarkable car.

**Styles and Prices**

Seven-passenger and Five-passenger cars, Four-passenger Salon and Roadster, $1975. Landaulet Coupe, $2500. Five-passenger Inside Drive Limousine, $2800. Seven-passenger Standard Limousine, $3450. Berline type Limousine, $3600. Prices F O B Detroit.



Seven-passenger Touring Car (illustrated), with Eight-Cylinder V-Type Engine.

Observe that the Power Plant does not demand a hood of abnormal proportions.

***Dealers will have demonstrating cars in the near future***

# Cadillac Motor Car Co., Detroit, Mich.

# "The First French Car at an American Price"

# BRISCOE

## 1915

# ANNOUNCEMENT

THREE years ago I conceived the idea of the BRISCOE car. It was to build, for less than a thousand dollars, a really high-grade small car—a car of as fine material, with as great care in workmanship, of as assured reliability, and of as highly finished artistic appearance as any of the best and highest priced large cars; a car built right, whose artistic lines would take it out of the ordinary, cheap, clap-trap, uncomely, low-value class, and thus singularly appeal to the discriminating buyer.

So I called several engineers together—men who had already designed American cars which were famous for the value they gave. I told them I must have a car that embodied these ideals—and more. They were to take their own time. Thoroughness, not speed, was to be the watchword. And I arranged to be with them day and night until the BRISCOE car was completed.

We knew the best American methods, these men and I; for we had been responsible for many successes here. So we went to Europe, where we could study the best of several foreign practices and methods.

And there, in laboratories, at Billancourt, near Paris, we finally worked out and produced this "first French car at an American price," the finished masterpiece of leading French and German engineers, who for more than a year collaborated with us in its production.

This is the story of the BRISCOE car.

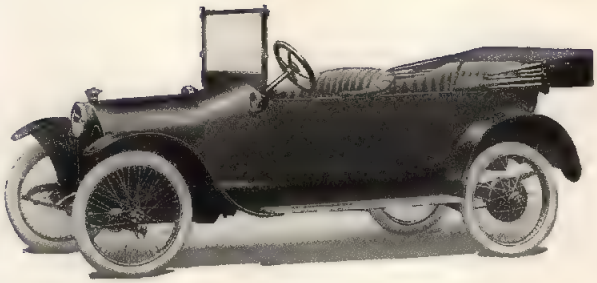
### Not Experiment that Produced the BRISCOE Car

It was not experimenting in this case—the slapping together of a varied collection of material to catch a season's market. It was rather experience that built the BRISCOE car—a finished product of several years' careful investigation and study; the concentrated effort of prominent engineers from three most famous automobile producing countries of the world—tried and proven under every conceivable practical test both abroad and at home.

I will stake my reputation of fifteen years of successful automobile building upon the performance of this BRISCOE car.

Benj. Briscoe
*President*

# BRISCOE



## $785 For Immediate Delivery Completely Equipped

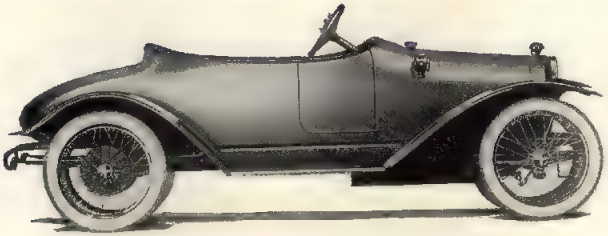
**Including electric starter, electric light generator, electric horn, accumulator, high-tension magneto, wire wheels (wood optional), one-man top, speedometer and windshield, etc.**

In the new light BRISCOE, you are offered a car not copied from a foreign design, but which in itself is an original foreign masterpiece—the only American-made car that was first designed and built in France; the first car to combine French engineering skill with American production economy.

Benjamin Briscoe has made it possible in this production, for the American people to buy in large quantities a car of French design throughout at a price that the people can and will pay. We ask you to compare this car with others selling at $300 to $400 more. Here is a proposition for the dealer, that assures him more money than he can make on older cars, and more sales than he can make on lesser-value, small-production cars.

In offering the 1915 BRISCOE to the buying people, we have taken into consideration every automobile value that has been, or is likely to be, offered in the market, not merely this year, but for a number of years to come. It represents no freak of design to which the public must be educated at the expense of the dealer,

# BRISCOE



## BRISCOE CLOVER-LEAF ROADSTER (Three-Passenger Roadster)

This car assuredly is of a new and smart style—characteristically "BRISCOE." It has two individual seats, with another behind them—an arrangement that is ideal for one, two or three passengers.

Appointment and finish of especial excellence.

**Price - - $875 Completely Equipped**

## THERE IS STILL TERRITORY FOR DEALERS

We have the financial strength, the factory organization, the equipment and the facilities to turn out this BRISCOE product in large quantities—with prompt deliveries assured. In fact, a big production is a necessity to the marketing of such a car at such a price.

We want more dealers—the best ones we can find—wherever motor cars are sold. And there is good money for you in the BRISCOE proposition—both in volume of sales and in profit per car. Write, wire, or call.

In placing this new BRISCOE car on the market, we have opened up a greater field for our dealers. We have at least doubled their possibilities.

We have established a system whereby loss of time, loss of movement, loss of energy, and loss of money will be practically unknown. We have at one fell swoop jumped into the big-production, low-price class, and perfected our organization to take care of a correspondingly large business. We have accomplished this by producing the most beautiful car of its type on the market—perfect in design and appointments, in maintenance, economy, and in its general mechanical construction.

## BRISCOE MOTOR CO., JACKSON MICH.

# BRISCOE

but a well-balanced, carefully conceived, normal motor car, in which are incorporated the most advanced ideas of European and American designers; it represents a value not possible through any other combination of manufacture.

As a result of its European breeding, it is a car of sufficient individuality to afford a basis for convincing sales talk.

As a result of its mechanical construction, you have all that any car has to offer in the "less than $1000 class," and much more than any car of similar price can possibly muster.

As a result of its complete equipment in every detail, you have what every small-car buyer is seeking within his price-range, and a value that will attract many a serious buyer whom you have figured to be in the larger-car class.

Its agency will individualize those who have part in its sale, and best of all, you'll get the honest, conscientious support of an active working sales organization, and the benefit of the fairest and squarest selling proposition in this broad land.

YOUR OPPORTUNITY IS NOW.

## THE BRISCOE STANDS ALONE IN VALUE, BEAUTY, AND PRICE, AT $785, FULLY EQUIPPED

### BRISCOE Features

- Silent Perfected Electric Starter
- Electric Lighting System
- Ignition for Storage Battery
- Headlight Centered in Radiator
- One-Man Mohair Top
- 107-in. Wheelbase
- Body designed by Carrousserie Internationale, Paris
- Extra Tire Carrier in Rear
- Chrome-Vanadium Steel Construction
- Full-Floating Rear Axle
- High-Tension Magneto
- Electric Horn Button on Steering Post
- Parisienne Curtains
- Light Weight (1700 lbs. equipped)
- Safety-First Brakes
- Left-Hand Control
- Tires Guaranteed (5000 miles)
- Gasoline Tank under Cowl
- Carburetor Control on Dash
- Extra Long Springs
- Wire Wheels (wood optional)
- Long Stroke "L"-Head Type Motor
- Sight Oil Feed
- Speedometer attached to Transmission
- Excellent Upholstery
- Robe Rail
- Brewster Green Color

PROMPT DELIVERIES

**A**merican merchants
**U**nite in praising
**T**he capacity
**O**f the *Autocar* for
**C**ontinuous service.
**A**sk any owner the
**R**eason.

**D**elivery improved,
**E**conomy secured,
**L**ower delivery costs,
**I**ncreased delivery area,
**V**aluable customers gained,
**E**fficient in all seasons.
**R**esult—
**Y**early profits increased.

**V**ouched for by
**E**nterprising and
**H**ard-headed
**I**ndividuals and
**C**oncerns who are
**L**ooking for
**E**fficient
**S**ervice.

*"Used in Every Line of Business"*

1700 owners, a large number of whom have from 10 to 270 *Autocars* each

THE AUTOCAR COMPANY, ARDMORE, PA.

*Established 1897*

Motor Delivery Car Specialists

# The Dart Cyclecar

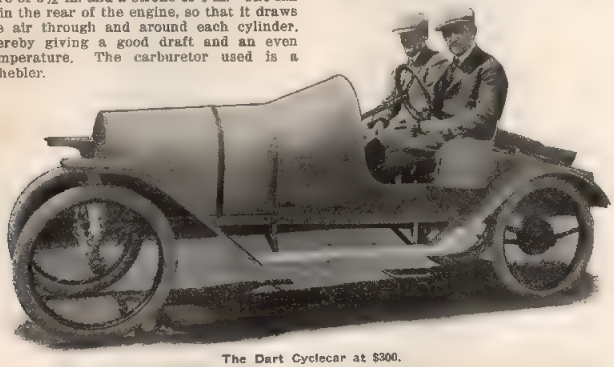
The Dart cyclecar, built by the Automatic Registering Machine Corporation, Jamestown, N. Y., is one of the low-priced comfortable side-by-side seated vehicles with a 102 in. wheelbase.

### Motor.

The motor is a twin-cylinder V-type, is air-cooled and rated at 15 h. p., having a bore of 3½ in. and a stroke of 4 in. The fan is in the rear of the engine, so that it draws the air through and around each cylinder, thereby giving a good draft and an even temperature. The carburetor used is a Schebler.

The Standard disc wheel may seem radical at the start, but many advantages are claimed for it. It is said to be unbreakable, will always run true and has a large radiating surface to prevent overheating of tires. Wire wheels can be furnished where specified, at an additional cost of $15.

The lighting is optional, electric all around or oil side and tail and gas headlights.



**The Dart Cyclecar at $300.**

Made by the Automatic Registering Machine Corporation. It has stream line body, 102 in. wheelbase and simple springing. The regular equipment includes the Standard steel wheel, but wire wheels can be furnished if specified.

The lubrication is by a force feed oiler, which delivers the oil to an extra groove cut on the piston, just below the wrist pin.

For ignition an Atwater-Kent Unisparker and set of dry cells are used.

### Transmission and Drive.

The transmission consists of a 14 in. spur friction with a 12 in. iron disc. The ratio of gearing is 5 to 1.

Drive is by No. 71 Whitney chain, 1¼ x ⅝ in., to the left rear wheel. This method of driving does away with the necessity for a differential.

### Springs.

The springing is on the three point idea. In the rear there are two 36 in. semi-elliptics, and in the front a parallel half-elliptic cantilever spring. This front spring is suspended from the frame in such a position that no matter what angle the chassis takes, the body will remain level.

### Other Details.

Brakes are of the expanding type, on the rear wheels. Steering is from the left side through a rack and pinion member. Control levers are in the center.

Tires are 28 x 2¾ in., anti-skid. The car weighs 650 lbs. and the tires are guaranteed for 1400 lbs.

The body is designed to seat two passengers side by side. Standard color will be orange with black trimmings. Wheelbase is 98 in., tread 36 in. and frame pressed steel.

The firm making the Dart cyclecar is the largest manufacturer of voting machines in the world and the same workmen that have been building the voting machines are working on the construction of the cyclecar. Deliveries will commence September 1st. The officers of the company are: William Shillaber, president; C. A. Magee, vice-president; S. A. Van Derveer, secretary and treasurer; W. J. Lausterer, superintendent; H. A. Bubb, sales manager; M. L. Badhorn, purchasing agent.

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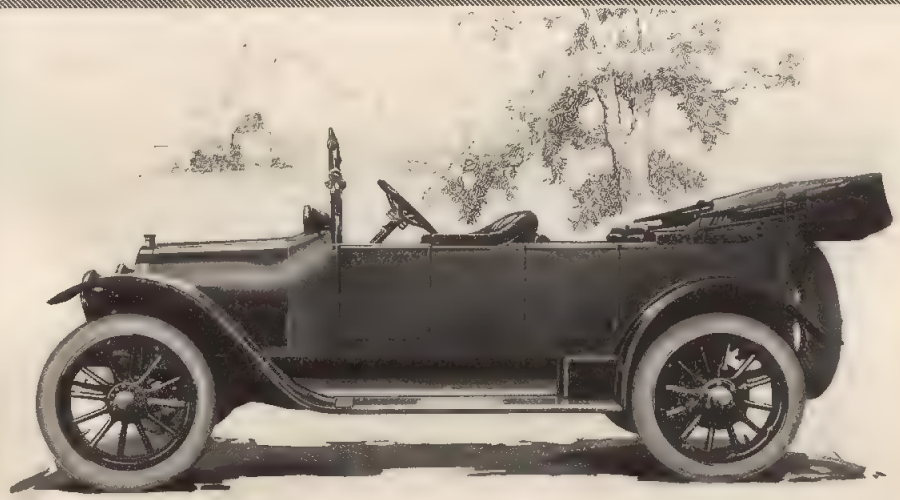
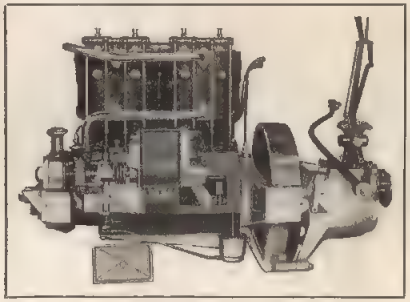
**Mercury Cyclecar Company**, of Detroit, Mich., has been petitioned into bankruptcy by the following creditors: Grafton & Knight Manufacturing Company, Worcester, Mass., $1244.06; Detroit Steel Castings Company, Detroit, $482.25; National Carbon Company, Cleveland, O., $81.25.



TEN years ago, the Dorris Motor Car Company was incorporated for the manufacture of Dorris cars. The original plant had a floor space of ten thousand feet; today we have nearly two hundred thousand feet under roof in two plants including the best and highest grade equipment and machinery for

the manufacture of Dorris pleasure and commercial cars. Careful management and conscientious building have resulted in a financial showing and a superior product that should mean much to the dealer contemplating a new line.

Dorris pleasure and commercial cars have had ten years of development of a single type chassis and the fact that every model has been a success is conclusive proof to you of the advantage in handling our product. There is no possible chance of disappointment or failure, as the new models are an embodiment of our past construction, to which improvements have been added.



The Dorris pleasure line consists of a single chassis on which may be mounted seven styles of bodies, embracing a touring car of five and seven passenger capacity, a four and six passenger, two passenger roadster, sedan and limousine.

The commercial cars embrace a delivery wagon chassis in two lengths of wheel base; the short, 132" wheel base for general delivery work and a special long wheel base of 144" in length for hearse, casket wagon, ambulance and delivery service where light bulky loads must be carried.

Our two ton trucks are made in two lengths of chassis—one of 144" wheel base for bodies up to ten feet in length, and 162" for work in which longer lengths are required.

In all our chasses is the proven Dorris valve-in-the-head motor, unit power plant and other features of established Dorris construction.

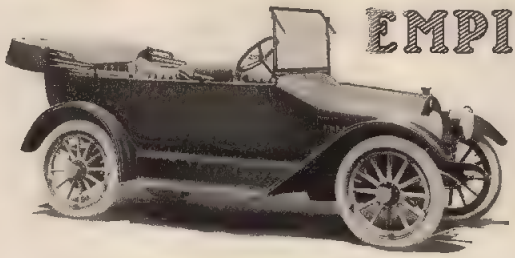
The entire proposition we have to offer to dealers is one on which to establish a permanent and profitable business. Our proven product and dealers' sales help campaign make the Dorris agency one to be particularly desired.

Catalogs and Dorris Dealers' Sales Help Campaign upon request.

Our proposition is unusually liberal and gives the Dealer an importance in his community not ordinarily enjoyed. Write for it.

# Dorris Motor Car Company

**4100 Laclede Ave., St. Louis, Mo.**




# An Exceptional Guarantee Backs Up Empire Quality

Every part of every EMPIRE car is guaranteed for one year.

Consider this feature as an indication of our belief in EMPIRE sturdiness and reliability. The usual manufacturers' warranty reads "For Ninety Days." The EMPIRE guarantee is "For One Year"—and the binding clause is a part of every EMPIRE sales contract. The fact that the EMPIRE is guaranteed for four times as long a period as ordinary practice demands, gives the best evidence of the EMPIRE company's faith in its product, an indication of faith due the dealer, whose future depends on the car he sells.

Not only the car, but also the entire Remy electrical equipment with the Willard battery, carries this year's guarantee.

The EMPIRE line for 1915 is more attractive than ever before. Three body types give a selection unusual in cars of so low a price. Each body is mounted on the EMPIRE chassis a clean-cut, sturdy car foundation, designed so correctly, so powerfully, that in three years, with the exception of refinements, we have not found it necessary or even deemed it advisable to make a change in any basic principle of construction.

Model 31-40 is a streamline, touring car of exceptional roominess, that, with electric lighting and starting, is priced at $975.00. No more up-to-date car is offered at any price—no car can surpass it in beauty of lines.

Model 31 is the standard EMPIRE five-passenger type—a big, roomy car that at $850.00 offers the greatest value of the season in a completely equipped non-electric car.

No two-passenger car on the market excels the EMPIRE roadster in attractiveness—the reliability of its chassis has been proven. With standard equipment, the price is $875.00; electrically started and lighted, $975.00.

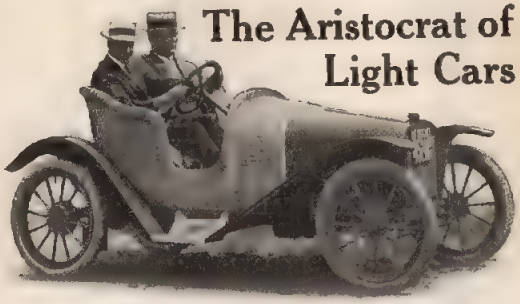
EMPIRE cars for 1915 at these popular prices meet the demand for all that is best in motor cars. There will be a big market for them in your territory. Our sales contract is co-operative. It gives the dealer opportunity to make real money on sales. Your territory may still be open. Write for our proposition and literature today.

**EMPIRE AUTOMOBILE COMPANY**
**480 NORTH CAPITOL AVENUE . INDIANAPOLIS, U. S. A.**

# The Model G—1915

# GADABOUT

## The Aristocrat of Light Cars



The GADABOUT is the original waterproof reed-body cyclecar, and combines an excellence of mechanical construction, attractiveness of appearance, economy of operation, strength and quality of parts which will make it a remarkable seller in the hands of any energetic dealer. The GADABOUT has the lightest, simplest, most economical operating unit power plant made,—one that develops great speed and is very accessible. The GADABOUT is essentially a quality car at a popular price. These brief specifications tell the story:

MOTOR—4-cylinder, 4-cycle, water-cooled Gadabout Special, 2 5x3.6, cast en bloc
CARBURETOR—¾", standard make.
IGNITION—Mag. Co. set spark
FRONT AXLE—Tubular, 1¾" diameter
REAR AXLE—Solid, equipped with Detroit Axle Co. gearless releasing clutch differential in hubs of wheels. The car that does not skid
CLUTCH—Cone, Raybestos faced.
BRAKES—Internal expanding.
WHEELS—Ball bearings, staggered wood spokes, 28 x 3" C. C. Rim
BODY—German reed on hardwood frame, cushioned and lined waterproof, 2-passenger, coolabon seating
STEERING—Right side, rack and pinion type
SPRINGS—1½", quarter elliptic
LUBRICATION—Splash system.
FRAME—Pressed steel
TRANSMISSION—Sliding gear, two speeds forward and one reverse
CONTROL—One foot pedal, one hand lever, one throttle lever
WHEELBASE—86", tread, 46", clearance, 9"
TIRES—28 x 3", 1 S special tread
LIGHTING—Electric.
HORN—Electric
GASOLINE TANK—Under hood, capacity 6 gallons.
WEIGHT—800 pounds
PRICE—$450 completely equipped, with starter

**The most fully and completely equipped light car in the world. Electric starter, electric lights; electric horn; generator; batteries; high-tension, independent set spark magneto; unit power plant; sliding gear transmission; top; windshield, and speedometer.**

## GADABOUT MOTOR CORPORATION

**EXECUTIVE OFFICE: - - - - - NEW YORK CITY**

**Factory: Cor. Badger Ave. and Runyon Sts., Newark, N. J.**

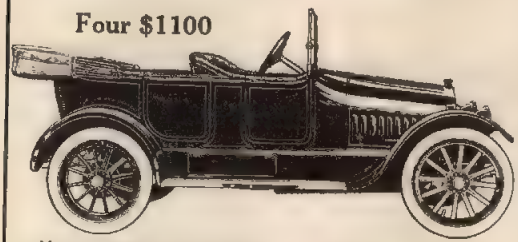
**Address all mail on selling agency to factory**

☞ First Paid Announcement

# Herff-Brooks "Four"

## This $1100 Four has a 118 in. wheelbase and a 40 horsepower motor

### Four $1100



- 40 Horsepower
- Five Crank-shaft Bearings
- Drop-Down Steering Wheel
- One-Man Top
- Complete Equipment
- 118 in Wheelbase
- 34 in x 4 in Tires
- Bosch High-Tension Magneto DU System
- Electric Lighting and Starting
- Stewart Speedometer
- Four Cylinders
- Honeycomb Radiator
- Demountable Rims, Extra Rim
- Timken and New Departure Bearings
- Turkish Upholstery
- Stromberg Carburetor

Many present-day four-cylinder cars are small and lack power. The Herff-Brooks is not one of these. It is large—118 in. wheelbase—and its motor develops 40 horsepower.

The Herff-Brooks has a five-bearing crank shaft. This gives perfect alignment, rigidity, long life. All highest grade four-cylinder cars have five crank-shaft bearings like the Herff-Brooks. Most other moderate-priced cars, though, supply only three crank-shaft bearings.

For ignition Herff-Brooks uses the Bosch High-Tension Magneto DU System. Nothing better is known. What other low-priced Four uses as good ignition? Remember, Herff-Brooks is the DU System.

**Timken and New Departure bearings do the work in Herff-Brooks transmission and rear axle. They are acknowledged the world's best.**

Herff-Brooks tires are the famous 34 in. x 4 in. Goodyear, No Rim-Cut.

The top is a one-man top, with easy adjusting curtains.

**In size, in power, in style, in equipment, the $1100 Herff-Brooks leads.**

**Herff-Brooks cars are completely manufactured, not assembled, in one great plant. We will pay the railroad expenses of any dealer who, coming to Indianapolis to inspect our works, contracts for Herff-Brooks cars.**

### Accept these advantages in Six-cylinder Quality and Price

### Six $1375

- 30 Horsepower
- Highest Grade Bosch High-Tension Magneto DU System
- Honeycomb Radiator
- Stewart Speedometer
- 34 in. x 4 in. Goodyear No Rim-Cut Tires
- Six Cylinders
- Electric Starting and Lighting
- Timken and New Departure Bearings
- 18 in Folding-Down Steering Wheel
- 124 in. Wheelbase
- Seven Crank-shaft Bearings
- One-Man Top
- Headlight Dimmers
- Demountable Rims, Extra Rim
- Complete Equipment
- Stromberg Carburetor

*WRITE FOR CATALOG A J*

**The Herff-Brooks Corporation, Indianapolis, Indiana**

Lippard-Stewart MOTOR TRUCKS

This Sign at Dealers

¾ Ton
1 Ton
1½ Ton
2 Ton

Our Richmond, Va., dealer first sold W. Fred Richardson, Inc., a ¾ Ton Lippard-Stewart in March 1914, then a 2 Ton Lippard-Stewart in July, 1914, then a ¾ Ton Lippard-Stewart. Combination Heavies for general Liberal service. 3 cars of one make, each different capacities, in 6 months time, after competitive tests with cars of other makes

# Sell the Line Made in Different Capacities, to Save the Waste Operating Expense for Your Customers

Remember that there is as much waste in operating too big a truck as there is in overloading. The range of sizes of the **Lippard-Stewart** line enables the purchaser to choose in 500 pounds capacity. You can sell an entire fleet of **Lippard-Stewarts** to suit the various conditions of haulage. The owner has the satisfaction of a fleet of one make of trucks and the satisfaction of the size of trucks suited to different requirements. *The **Lippard-Stewart** dealer not only can sell his customer all the different size trucks he requires, but he has a range of sizes that will put him in touch with the majority of truck business being placed.*

**Lippard-Stewarts** are bringing repeat business to dealers in cities from the Pacific to the Atlantic Coast. Over 40 firms use two or more **Lippard-Stewarts**, having purchased from one to twelve extra within the past year. They are doing work for Dairies, Department Stores, General Merchants, Builders, Wholesalers and Retailers. The Army uses them on the Mexican Border. They are in Parcel Post work. They are popular in Omnibus, Patrol and Ambulance work, where quick service, durability and economy count.

The large San Francisco Department store, Hale Bros., now use a total of 9 Lippard-Stewarts. Their appearance counts for a good deal. This is sound evidence of how our dealers hold business. Over 70 lines of business are using Lippard-Stewarts

You can realize on the business in your locality with **Lippard-Stewarts**. Write for Catalog that shows why we use Continental Motor, Automatic Speed Governor, Eisemann Magneto, Brown-Lipe Transmission, Timken Axles and Bearings, David Brown Worm Drive, Big Size Tire Equipment.

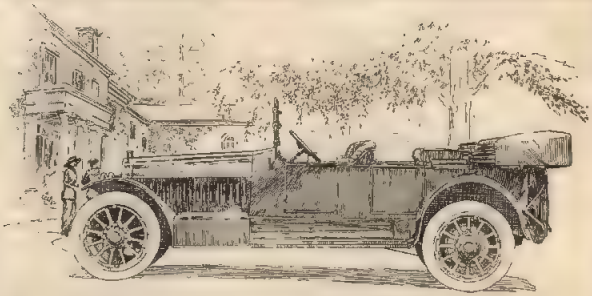
We have a proposition for live dealers who are willing to tie up with our campaign in magazines like System, Literary Digest, World's Work, Review of Reviews, etc.

*Write for Particulars.*

## LIPPARD-STEWART MOTOR CAR COMPANY

1731 ELMWOOD AVENUE BUFFALO, N. Y.

"The Easiest Riding Car In The World"



**The new Marmon "48"**—The safest, surest, most capable and easiest riding of all high-class cars, 145" wheel base, for seven passengers, $5000.

# Announcing the New Marmon "48"

Here are three assertions we make regarding this remarkable car:

(1) The Marmon "48" is safer and will hold the road better at high speed than any other motor car in the world.

(2) The Marmon "48" will carry you and your passengers over rough roads with greater comfort than any other car in the world.

(3) The Marmon "48" steers easier at any speed under adverse road conditions than any other car in the world.

But these are more than mere "assertions."

We will back every one of them with actual proof under your own conditions.

It may interest you to read the illustrated description of the features of this remarkable car. We will gladly send them to you, but—

Remember—Actual proof in performance is the basis of our claims of Marmon value. Make us prove it.

**The new Marmon "41"**—"An extraordinary car," medium in size, six cylinder, 132" wheel base, for 5 passengers, $3250; for seven passengers, $3350.

***Detailed information on request***

**NORDYKE & MARMON COMPANY**

INDIANAPOLIS ESTABLISHED 1851 INDIANA

Sixty Years of Successful Manufacturing

# AND NOW COMES THE NEW STUTZ BULLDOG

**A New Four-Passenger Speedster in answer to the demand for a Smart, Classy Touring Type—with all the qualities demanded by the discriminating Sportsman—Speed—Style—Stamina**

BULLDOG

Bulldog—4-Cylinder—$2250.00

## DEALERS!

You should have the Stutz Agency:

***Because:***—In the cars you find all the dependable qualities that belong so exclusively to the "Stutz"—

***Because:*** The line is complete and covers every demand of type, speed, comfort and endurance—

***Because:***—Its consistent race record of over four years has proven its worth and created the demand which has forced an enlargement of our facilities.

These and other properties make it a most profitable and satisfactory car for the dealer to handle.

**4 Cyl.** Bearcat, $2000 Roadster, $2000 Touring, $2275 **6 Cyl.** Bearcat, $2125 Roadster, $2125 Touring, $2400

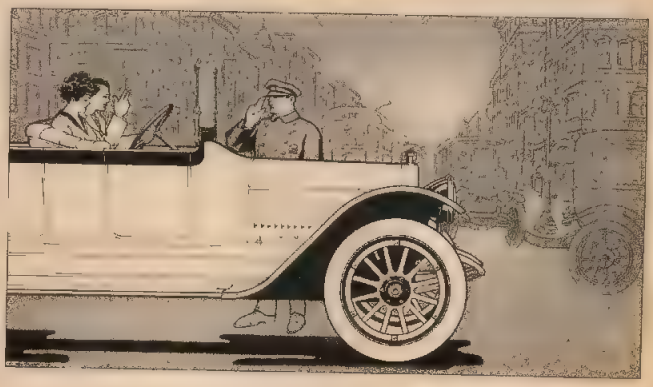
**See the Sturdy Stutz—Two, Four and Six Passenger Cars—in Four and Six Cylinder Models**

**STUTZ MOTOR CAR COMPANY**

INDIANAPOLIS INDIANA

# WINTON SIX

*Write Your Own Guarantee*



## *The American Beauty*

THE first company in America to manufacture a marketable motor car of any type (1898), and the first in the world to manufacture six-cylinder cars exclusively (1907), has so thoroly developed the Winton Six that today this car is the one outstanding exemplar of wholesome American beauty and merit.

¶ The Winton Six is free from every trace of foreign imitation. Its goodness is not of the make-believe kind that exists chiefly in the buyer's imagination.

¶ You have only to see this car to recognize its exceptional charm, and you have only to ride in it to know that the Winton Six will add a new zest to your enjoyment of life.

¶ Your particular Winton Six can be finished to conform to your individual taste, making it distinctly your personal possession—not merely anybody's car.

¶ Our catalog tells the facts fully and briefly.

**The Winton Motor Car Co., 417 Berea Road, Cleveland, O.**

***Branch Houses in Twenty American Cities***

# The Williams' Line—

each equal to its respective requirements

Williams'
Heavy Service
***"Vulcan"***
11 Sizes
Capacities
¼ to 12½"

Williams'
Medium Service
***"Agrippa"***
7 Sizes
Capacities
⅝ to 18"

Williams'
***"Light Service"***
7 Sizes
Capacities
0 to 12"

The Williams "Light Service" Clamp has just been produced to provide at an infinitely greater amount of utility and service than has ever before been possible in any other of similar class

**Williams' Design**
**Williams' Drop-forging**
**Williams' Heat-treatment**

*Send for Dependable Tools Catalogue!*

**J. H. WILLIAMS & CO.**
**Superior Drop-forgings**

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## The Wrench of Sterling Quality

Dependability and reliability are inseparable from Quality. In wrenches "quality" is of vital importance. The quality of the "COES" Wrench is constant. It never varies. The "COES" Wrench of each succeeding year can be absolutely depended upon to possess superiority over other wrenches,—it outweighs all others in point of durability and service.

The proof of this statement is in the wrench,—the **test** is up to you.

The "COES" Wrench has a world-wide reputation for efficiency and reliablity,—this is but the natural result of established quality,—a standard of excellence which has always been strictly maintained,—a constant effort to improve. It is this spirit of progress, this endeavor to give "COES" users the kind of wrench that will give them **real** service that has made the name "COES" a household word among motorists everywhere,—truly it is as necessary as gasoline.

***A Million and More the Annual Output!***

**Coes Wrench Co.**
**Worcester, Mass.**

**Agents**
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for Diamond, Whitney, Baldwin and C-T Chains

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Let us quote you Prices

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It and its supplements offer a comprehensive guide to the best in Automobile Hardware, Mountings and Fixtures. Our reputation for quality production, and the satisfaction our various products afford both car makers and users have brought us such a volume of trade that we can quote very reasonable prices on articles of the highest quality. Test us and learn how true this is.

**JOSEPH N. SMITH COMPANY, Detroit, Mich.**

*"Where Quality Counts"*

## AN ADVERTISED CASE!

# HAVOLINE OIL

*"It makes a difference"*

in every garage, because it's a meritorious motor lubricant with a nation-wide following. Owners of every make of car will testify that Havoline minimizes frictional losses and carbon deposits throughout the motor, permitting it to generate maximum power. Its base crude is of high quality and its process of manufacture preserves its life.

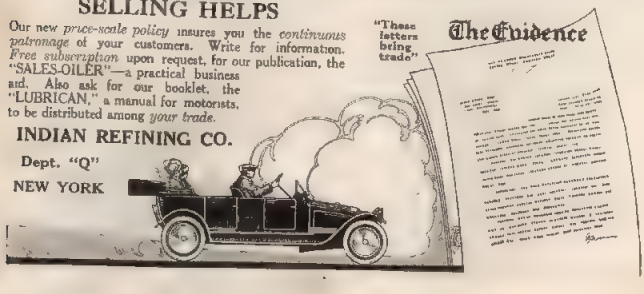
## SELLING HELPS

Our new *price-scale policy* insures you the *continuous patronage* of your customers. Write for information. *Free subscription* upon request, for our publication, the "SALES-OILER"—a practical business aid. Also ask for our booklet, the "LUBRICAN," a manual for motorists, to be distributed among *your trade*.

**INDIAN REFINING CO.**

**Dept. "Q"**

**NEW YORK**



# MOSSBERG

**No. 17 Set for FORD CAR**

The friends who count are those who stick when trouble comes. There is no truer friend than a No. 17 Set. Meets every trouble with **instant** help. Note the oval socket for center-bearing nut.

No. 17 SET—List Price, $2.00

GUARANTEED SOCKETS

**FORD VALVE GRINDERS**

**Nos. 600 and 605**

Free yourself of that dread of valve grinding! **Mossberg** Grinders are simple, cheap and savers of time, patience and pleasure—and **absolutely guaranteed.**

No. 600
VALVE GRINDER
List Price, 45c

No. 605
VALVE GRINDER
List Price, 50c

GUARANTEED SOCKETS

**FORD SET No. 15A**

It honestly is a **Ford necessity.** There's a socket for **every** adjustment. Note the oval socket. One No. 15A Set offsets a year's repair bills.

No. 15A SET—List Price, $5.70

**Write for Catalog No. 169**

## FRANK MOSSBERG COMPANY

**ATTLEBORO, MASS.**

RAYFIELD
CARBURETORS

## Make a Four-Cylinder Car Run Like a Six

THAT flexibility which is the boast of six-cylinder cars can be gained in a good four-cylinder car — with a Model G Rayfield Carburetor.

Carburetion is by far the biggest single influence in the performance of a motor, and the Model G Rayfield will actually give you more flexibility on a four-cylinder motor than you can get with an average carburetor on a six.

The Rayfield will improve the running and efficiency of any six-cylinder car, too.

You will find your old motor acting like a giddy new machine when you put a Rayfield on it. It will throttle down as slow as your heart beats, and still be ready to "pick up" gently, and swiftly.

The average motor "picks up" like a thing of iron and steel, but the Rayfield-equipped car accelerates as rapidly as wild fowl rise in flight.

There is something new under the sun, and you'll know what it is when you get a Rayfield Model G on your car. It takes only a few hours to put it on and the good of it will last forever.

BRANCHES:
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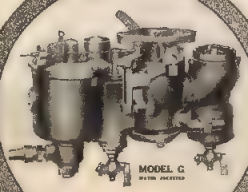
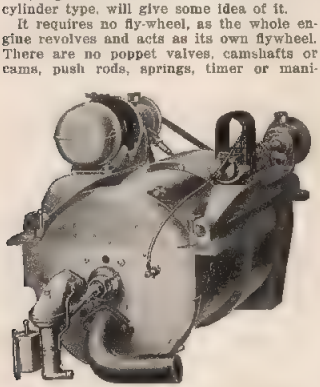



FINDEISEN & KROPF MFG. COMPANY
2107 Rockwell St.
CHICAGO ILLINOIS

## A New Trebert Rotary Engine

Henry L. F. Trebert, of Rochester, N. Y., has brought out a new type of engine which is described as a four-cycle, valveless, reciprocating rotary engine. A brief description, together with an illustration of a six-cylinder type, will give some idea of it.

It requires no fly-wheel, as the whole engine revolves and acts as its own flywheel. There are no poppet valves, camshafts or cams, push rods, springs, timer or manifolds, and a one-cylinder magneto with double breaker is used on both the four and six cylinder type, the only wiring necessary being one wire about 2 ft. long from the magneto to a master plug. The oiling system is simple and reliable.



The Trebert Six Cylinder, Four Cycle, Valveless Reciprocating Rotary Engine

These engines have been thoroughly tested for the past eighteen months, and the results obtained are extremely satisfactory, as they show both speed and power on a minimum amount of gasoline and oil. They are built both air and water cooled, in sizes ranging from 10 to 300 h. p. We understand that Mr. Trebert is not going to manufacture these engines on a large scale himself, but will license engine builders to make this type on a royalty basis.

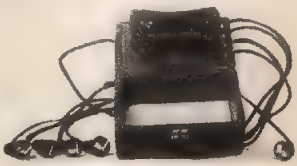
---

**Peerless Tire Boot.**

For taking the strain off dangerous spots or blow-outs, being held on with steel hooks, which slip under the iron ring which holds the tire onto the wheel. The steel studded tread extends over the wearing surface of the tire and gives excellent traction. Offered by the Peerless Tire Protector Company, Seattle, Wash.

## The Dinshah Engine Tester

This device, to locate and indicate all electrical troubles on automobiles, resembles a small camera, being 6 x 3½ x 8 in. It is connected to the engine by the wiring shown and indicates by means of white sparks and green flashes, this being easily understood with the aid of the instruction card. The instrument is made for motors with various numbers of cylinders, the "Universal Model" being for four cylinders.



Dinshah Engine Tester Open to Use. Folded, it is the size and appearance of a small camera.

For each cylinder to be tested there is an X Ray tube inside a block of special material, and to each tube is attached a cable and clip. When the clip is attached to the cylinder, it indicates any trouble. The device is being placed on the market by the Dinshah Sales Company, 735 7th Avenue, New York City.

---

**Improved Ritz-Woller Model B Junior Gasometer.**

For gravity and the new section feed tanks. Same as the Junior Gasometer of last year with the exception that the gravity controller has been eliminated. It is graduated in gals. for Fords and Overlands, and in. for other cars. Retails at $4 with tubing and connections and $3.50 without. Is Oliver C. Ritz-Woller, 536 S. Clark Street, Chicago, Ill.

# Lower Price, More Power and Refinements in 1915 Chandler Six

This comparatively new "six," being only two years on the market, is reduced $190 in price for the coming season, being catalogued at $1595. It has no radical changes in design. Probably the most important improvement is the increase of ten per cent. to the power of the car. This has been obtained without altering the bore and stroke of the present car, and is the result of refinements in the motor. Lighter pistons, a lighter flywheel and lighter reciprocating parts all contribute to the increased power as does the Rayfield carburetor, a new equipment on the Chandler Six for next season. Light weight will again be a feature.

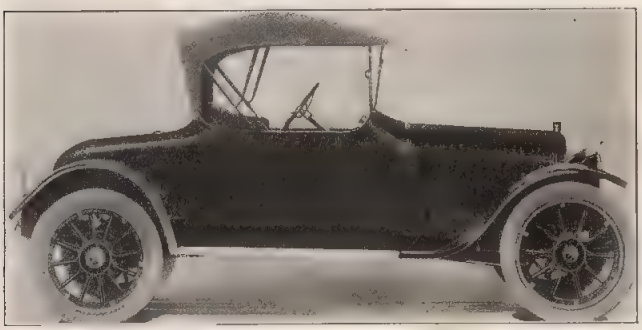
The 3⅜ x 5 in. motor has great economy claimed for it, having made 24.4 miles to the gallon under A. A. A. auspices. The enclosed valves have a 30 deg. seat and a 9-32 in. lift. A feature is the use of Coventry silent chain for magneto and cam shaft drive.

Oiling is combined force feed and splash. Cooling by Mayo radiator and centrifugal pump. Ignition by Bosch high tension magneto and plugs.

Electric starting and lighting system is single wire, two machine Westinghouse with the generator mounted forward and running at crank shaft speed and the motor driving through engine flywheel with a 15 to 1 reduction and cranking at 90 to 110 r. p. m. Headlights have two bulbs, one for city and the other for country driving.

Housed with the flywheel and in unit with the engine is the multiple disc clutch, which has alternate discs of steel and Raybestos. This mechanism has been improved throughout by the addition of a ball

**Chandler Six Touring Car.**
Latest streamline body seating five and selling at $1595, including full equipment.



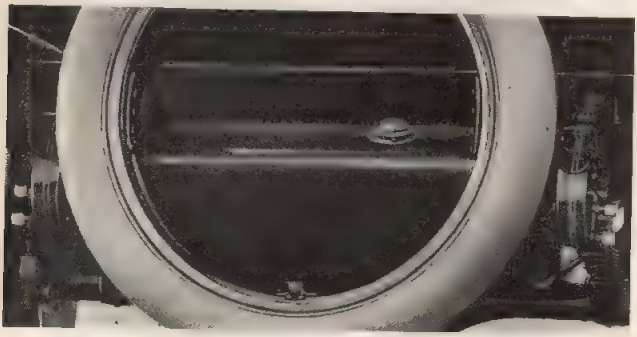
Chandler Six Two-Passenger Roadster, $1595.

thrust bearing which serves to take the throw-out strain and reduces friction. The clutch runs in oil. The gear set, also in the motor unit, has three forward speeds and reverse. The gears are nickel steel and the shafts are mounted on F. & S. annular ball bearings. Gear shift and brake levers are mounted directly on the gear case, thus giving center control.

nal expanding type, the shoes being faced with a heat-resisting friction material. The drums are 14 in. in diameter.

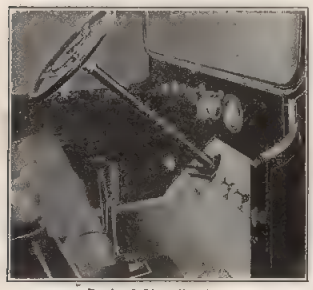
Rear springs are three-quarter elliptic and mounted over the axle tubes. These, as well as the front half elliptics, are 2 in. in diameter.

The gasoline tank also is mounted at the rear and below the chassis level, feed to



**Chandler Six Rear.**
Note very neat tire carrier.

The power goes to the rear by an open drive shaft fitted with a Hartford universal joint at either end. A pressed steel torque arm paralleling the drive shaft from the center cross member back to the axle housing has been adopted. It has a ball and socket buffer construction at the front end, and is hinged at the rear in the usual manner. This type of torque arm replaces the heavier rod construction heretofore used. The rear axle is floating type with F. & S. annular ball bearings in wheels, shafts and differential. The brakes are double inter-



**Dash of Chandler Six.**
Showing convenient position of all equipment.

the carburetor being by pressure on one valve lifter. The tank has a capacity of 20 gal. The wheels are of wood and carry 34 by 4 in. tires. Standard equipment calls for Firestone straight-side or clincher demountable and detachable rims.

Body design, which is of the streamline type, has come in for little alteration. Clean running boards are obtained through the mounting of the storage battery within the frame and the placing of the spare tire at the rear on brackets which are of a special form. The width of the fenders has been increased somewhat, however, and they are of domed form. Very neat and symmetrical arrangements of the instruments on the cowl board serves to set off the front compartment, while the rain vision, ventilating windshield adds its finishing touch. The cushions are 10 and 12 in., and the seats, front and rear, have high backs, and are a feature for comfort. The rear seat is 47 in. in width

Among the equipment may be mentioned an electric motor horn, Jones speedometer, 8-day clock and Jiffy curtains. The wheelbase is 120 in.

These cars are built by the Chandler Motor Car Co., Cleveland, O.

---

**Janney, Steinmetz & Company,** Philadelphia, Pa., has issued a new booklet which has technical pages of metric conversion table, rules relative to the circle and interesting information for the automobile builder.

# Judge

# San Diego Panama California Exposition

## What Millions Will Say

### Of California's Great Exposition

CELEBRATING THE OPENING OF THE PANAMA CANAL

1915 GET YOUR TICKET FOR SAN DIEGO 1915

# San Diego Panama California Exposition

## What Millions Will Say

### Of California's Great Exposition

CELEBRATING THE OPENING OF THE PANAMA CANAL

1915 GET YOUR TICKET FOR SAN DIEGO 1915

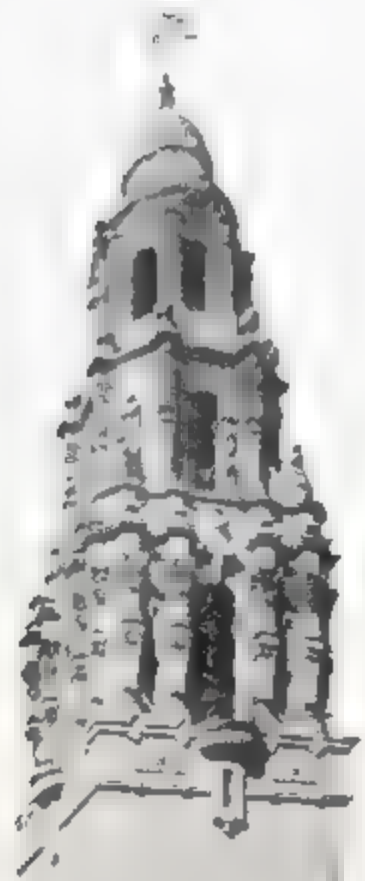
**Make 1915 the happiest year of your life**

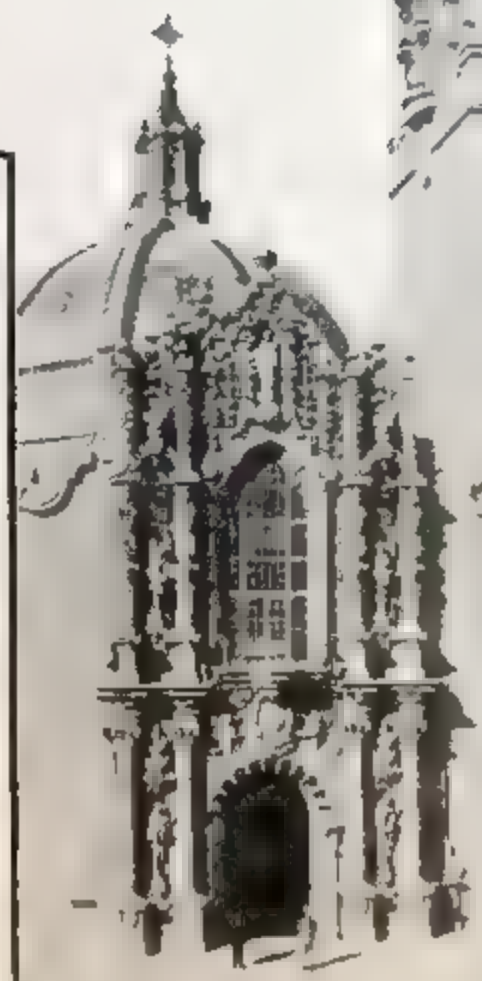
Put it to yourself this way. If you want to see the best there is to see or heard of, or want to see more than a mere passing glimpse of it, then you must make your plans to be there for a considerable part of the time. Why not make it your vacation this year? Why not plan to be there for a week or a month? Why not plan to be there for the whole season?

Open January 1

1915 All the Year

1915 All the Year





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Schoenhut All-Wood Dolls

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Toys that gladden the hearts of our dear little ones—Appeal to boys and girls alike in any age

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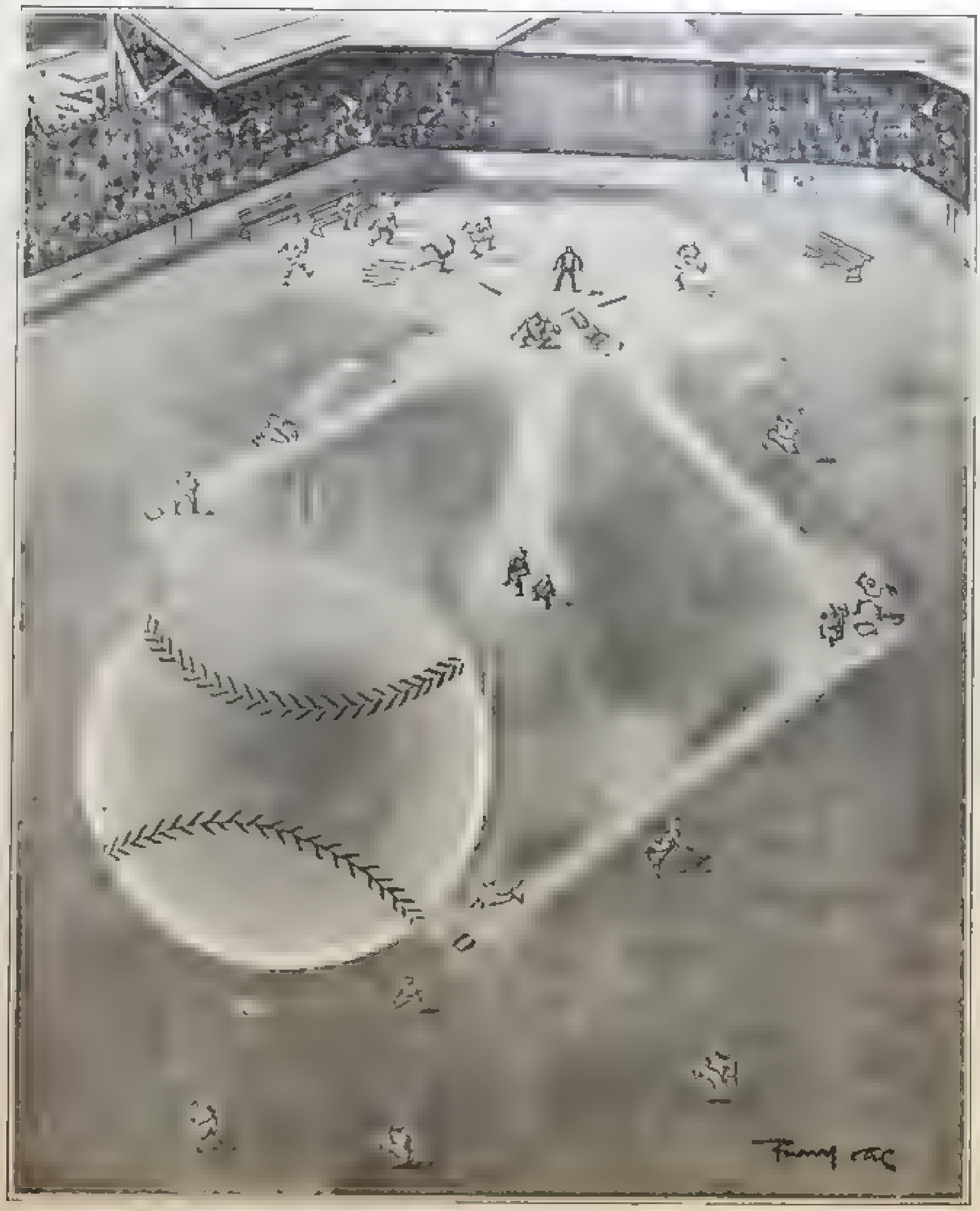
ORDER THIS HIGH GRADE XMAS GIFT FOR "HIM" NOW

SKINNY'S DREAM
THE NIGHT AFTER HE MADE THE HOME RUN



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DEEP SEA NUMBER

# Life

PRICE 10 [illegible]

MY FIRST SEA VOYAGE

·LIFE·

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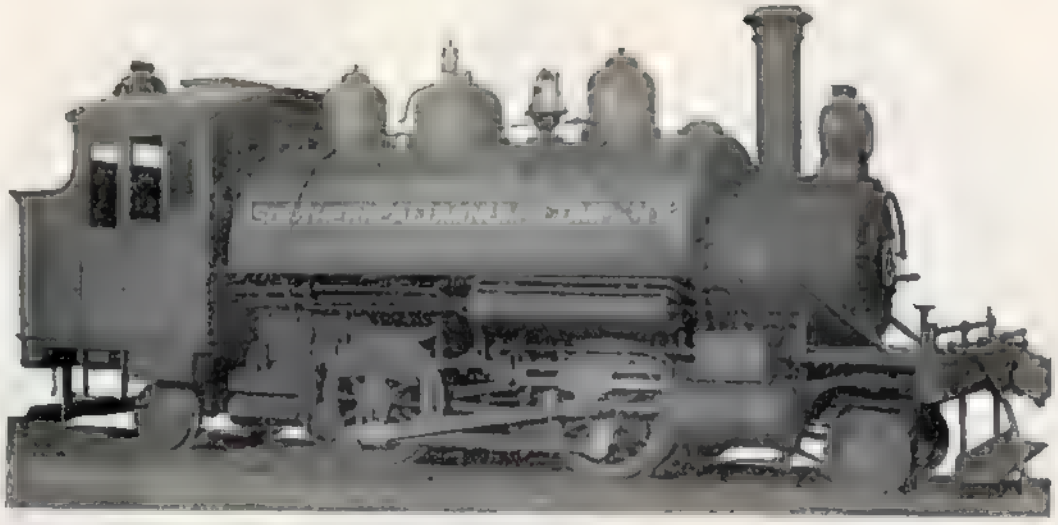
*Liggett & Myers Tobacco Co.*

Distinctively Individual — 15¢

# "Standard" Parts For Industrial Locomotives



Southern Aluminum Company locomotive equipped with "Standard" Parts

"Standard" Parts are made by a tried and proved process and with such care and skill that only quality can result.

This yard locomotive of the Southern Aluminum Company is equipped with "Standard" Steel Driving Tires, "Standard" Steel Axles and other forgings.

ISI BRAND

*"The 'Standard' Brand on your material is an assurance of eventual economy."*

ISI BRAND

## Standard Steel Works Company

**Morris Building, Philadelphia**

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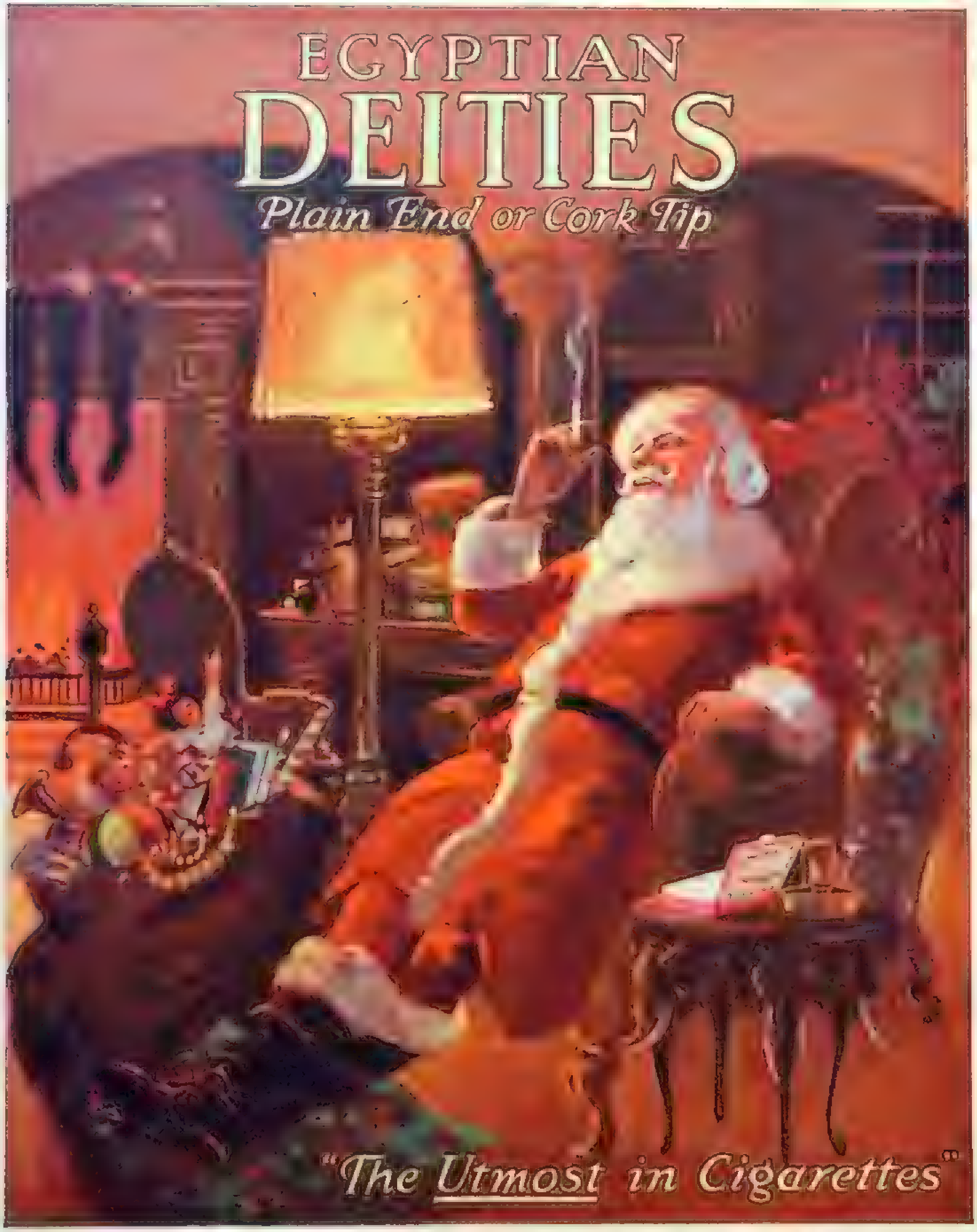
St. Paul, Minn. St. Louis, Mo. Portland, Ore. San Francisco, Cal. Denver, Colo.

**Steel Tires, Steel Tired Wheels, Solid Forged and Rolled Steel Wheels, Rolled Steel Gear Blanks, Steel and Iron Axles, Steel Springs, Steel and Iron Forgings, Steel and Iron Castings, Rolled Steel Rings, Steel Crusher-Rolls and Shells, Steel Pipe Flanges**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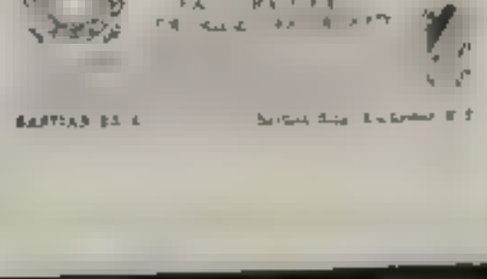

HISTORY AS IT MIGHT HAVE BEEN

THE TRIAL OF MARY, QUEEN OF SCOTS

# You Should Not Worry!

## Cheat Dull Care with a Pipeful of Tuxedo Happiness

MANY a man has smoked himself into good [illegible] That's the reason, on a *rainy* day, that good old Tuxedo sells in *double* quantities.

[illegible] —clear your brain—[illegible] put the "get-there" into your job.

Athletes, doctors, thousands of prominent men of all kinds tell us that, and they know what they are talking about.

# Tuxedo

*The Perfect Pipe Tobacco*

is made *just exactly right* for the man who wants a *soothing* smoke. It is *mild* and wholly *beneficial*. A product of the gentle, mellow, sweet-smoking Old Kentucky Burley leaf.

You can smoke a pound [illegible]

Tuxedo Process" has removed the bite and sting. [illegible] secret process has been imitated, of course. But it [illegible] *first* in the field and is still the *best*.

Next time the worry-wolf starts chewing the Welcome off of your doormat, sic Tuxedo on him. He'll sure vanish into thin air with the sweet cloud of smoke.

YOU CAN BUY TUXEDO EVERYWHERE

Convenient pouch, lined with moisture proof paper **5c** Famous green tin, with gold lettering, curved to fit pocket **10c**

*In Glass Humidors, 50c and 90c*

SAMPLE TUXEDO FREE—

[illegible]

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**At your newsdealer's—the February Vanity Fair. A great pictorial re-**

# Happy Housecleaning!

[illegible] this great housecleaning week all the [illegible] drudgery and the confusion. The [illegible] make it all easy and [illegible]

The **Wizard Triangle Mop** [illegible] "Gets-in-the-Corners" [illegible] Being [illegible] the mop that gets the dirt within reach of [illegible]

**Wizard Polish** gives an added [illegible] furniture and woodwork [illegible] the [illegible] cleaning methods. And while [illegible] the children are enjoying themselves [illegible] the "Wizzikin" Theatre [illegible]

[illegible] to do [illegible] with [illegible] old efficiency and [illegible]

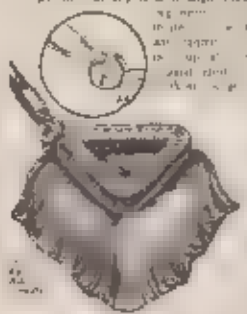
## WIZARD
### Triangle Polish Mop

*The Mop for "Gets-in-the-Corners"*

[illegible] everywhere. [illegible] corners [illegible] to get [illegible] mop [illegible]

**Has a "Human Elbow"**

[illegible]



**Price $1.50**

[illegible]

## WIZARD
### POLISH

*"More Than a Furniture Polish"*

[illegible]

**Secret Oriental Oil**

[illegible]

## WIZZIKIN THEATRE

*2 Acts 8 Characters*
*Transformation Scene*

**Read How To Get It**

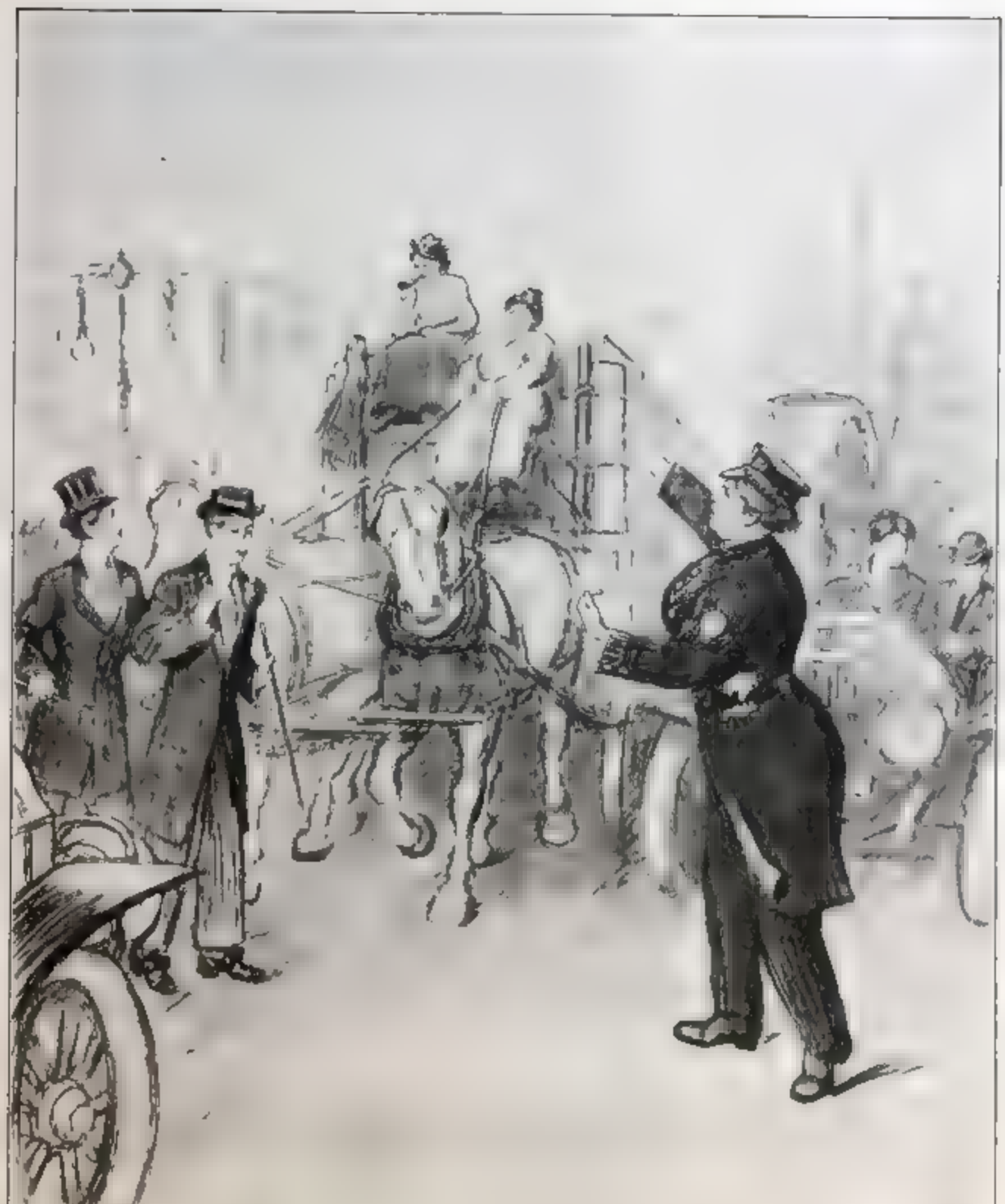
This [illegible] theatre will make a big hit [illegible] Size of [illegible] In the [illegible] and the [illegible] entertainment scene. The [illegible] characters are Mrs. Busy and [illegible] and a bunch of the W. Z. [illegible] on the [illegible] beside [illegible] dolly [illegible]

**Wonderful Tricks**

[illegible]

**WIZARD PRODUCTS COMPANY Inc., 1481 West 37th St., CHICAGO, ILL.**

"AH! THE PEACE AN[illegible] THE COUNTRY! I WONDER A[illegible] AUNT'S FARM AND WORK! I THINK I WILL [illegible] NEAR THIS [illegible] BOOK AN[illegible] UNTIL [illegible] TIME"



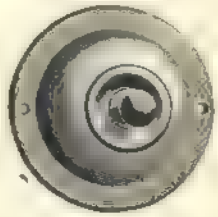
# PUSH BUTTONS

## FOR ELECTRIC BELLS

M R Design - Wrought Bronze, $2^{3}/_{8}$ in. x 4 In.

| No. | Finish | Per Doz. |
|---|---|---|
| **AB9184MR** | Antique Copper | $8 00 |
| **OB9184MR**—Dull Brass | | 8 00 |
| **BB9184MR**—Bower-Barff | | 8 00 |

ONE-SIXTH DOZ IN A BOX

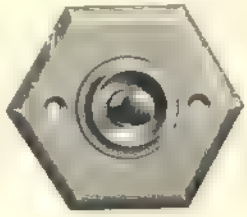


Wrought Bronze, $2^{3}/_{8}$ in. Diameter

| No. | Finish | Per Doz. |
|---|---|---|
| **AB9161P**—Antique Copper | | $4 00 |
| **OB9161** —Dull Brass. | | 4 00 |

ONE-HALF DOZ. IN A BOX

No 9139

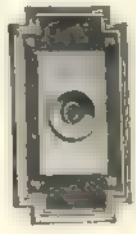


No. 9136

Cast Brass

| No. | Finish | Each |
|---|---|---|
| **OB9139** | Dull Brass, $2^{1}/_{4}$ in. Diam | $2 50 |
| **OB9136**—Dull Brass, $2^{1}/_{2}$ x $2^{3}/_{4}$ in | | 2 50 |

TWO IN A BOX



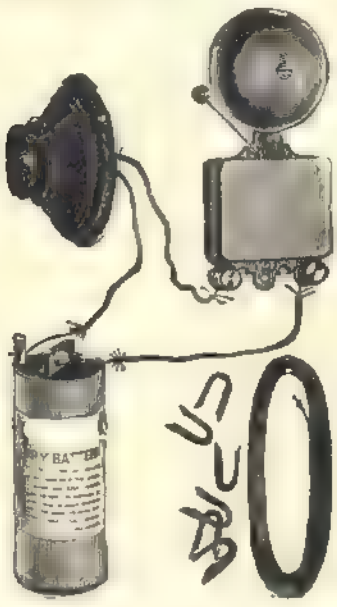
No. 9184LA

No. 9184JA

Cast Brass

| No. | Finish | Each |
|---|---|---|
| **0E9184LA** | Dull Brass, Depressed Surface Dark, $2^{1}/_{4}$ x 4 in | $4 00 |
| **R5D9184JA**—Light Antique Brass, Sand, Depressed Surface Dark, $2^{1}/_{2}$ x 4 in. | | 4 00 |

## ELECTRIC BELL OUTFIT



| No. | Each |
|---|---|
| **100**—Outfit consists of Iron Box Bell, Dry Battery, Push Button, 50 ft. Wire, Staples and Directions for Applying | $2 00 |

*Can also be furnished with any of our Design Push Buttons at additional cost.*

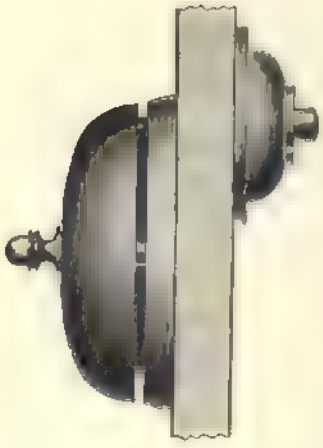
## ALARM BELL

| No. | Per Doz |
|---|---|
| **133** -Polished Brass Bell, Japanned Spring. | $12 00 |

ONE-HALF DOZ IN A BOX. WT DOZ 13 LBS

# DOOR BELLS

## ELECTRIC RING



Half-Size Cut

### No Battery—Self-Winding

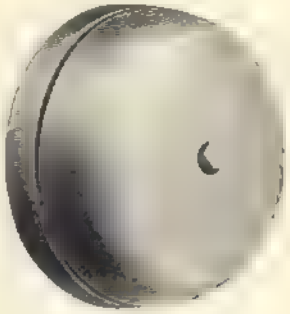
Complete with 4½ in. Wrought Bell-Metal Bell and 14 inches of Rod and Push Button

| No. | | Per Doz. |
|---|---|---|
| AB153½MR | -Antique Copper Finish, complete with 3½-in. Bell | $15 00 |
| OB153½MR | —Dull Brass Finish, complete with 3½-in. Bell | 15 00 |

## ROTARY

Bell No. 163MR

Bell No. 163EC



Steel Bell 3 in

Bell No. 163TC

### To Turn, They Require No Winding

Sets complete with 3-in. Steel Bell and Bronze Metal Bell Turns

#### MR Design

| No. | | Per Doz. |
|---|---|---|
| AB163MR | Antique Copper Finish, complete with 3-in. Bell | $7 00 |
| OB163MR | -Dull Brass Finish, complete with 3-in. Bell | 7 00 |
| BN163MR | -Imitation Bower-Barff, complete with 3-in. Bell | 7 00 |

#### Edgewood (EC) Design

| No. | | Per Doz. |
|---|---|---|
| AB163EC | —Antique Copper Finish, complete with 3-in. Bell | $8 00 |
| OE163EC | Dull Brass Finish, Depressed Surface Dark, complete with 3 in Bell | 8 00 |

#### Crete (CG) Design

| No. | | Per Doz |
|---|---|---|
| AB163CG | —Antique Copper Finish, complete with 3-in. Bell | $8 00 |
| OE163CG | Dull Brass Finish, Depressed Surface Dark, complete with 3 in Bell | 8 00 |

#### Tarlton (TC) Design

| No. | | Per Doz. |
|---|---|---|
| AB163TC | —Antique Copper Finish, complete with 3-in. Bell | $8 00 |
| OB163TC | —Dull Brass Finish, complete with 3-in. Bell | 8 00 |

EACH SET IN A BOX. WT DOZ SETS 16 1-3 LBS

SEATTLE HARDWARE COMPANY

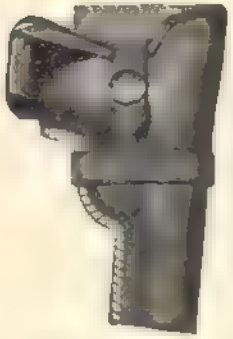
# HOLSTERS

## HEISER

No. 260

### HIP-POCKET HOLSTER. FOR AUTOMATIC PISTOLS

**No. 260**—Made of Medium-Weight Oak-Tanned Russet Leather, with Patent Leather Lined Back, 4½ inches Wide; Open Bottom with Rivets at ends of all seams; Button-hole Piece sewed to front of Holster to button over the edge of Pocket. For 25 and 32-Caliber Colt Automatic and 32-Caliber Savage Automatic .....Each, $1 90



Nos. 170 and 270

### BELT HOLSTER WITH SAFETY STRAP

**No. 170**—Made of Heavy Skirting Leather, New Style Design, Hand Buckskin Wrap, Stitched Edges with Safety Strap and Snap Button to hold gun in place, Unlined Pouch, Open End. For all Automatic Pistols, 32 Savage and 25, 32, 38, 380, 38M and 45M Colt.....Each, $2 70

**No. 270**—Same as 170 but Medium Weight Leather. For 32 and 38-Caliber Colt Automatic and 32 Savage Automatic. .....Each, 1 90

Nos. 181 and 280

### BELT HOLSTER. FOR AUTOMATIC PISTOL

**No. 181** Waffle Design, made of Heavy California Skirting Leather, with Wide Belt Loop Strap sewed fast to back, Open End, Outside Seam with Hand Rivets at each end, Snap Button to hold flap down, full Calfskin Lined. For all Automatics... Each, $4 10

**No. 280**—All Plain Finish, Medium Weight Leather, Otherwise as No. 181..... " 2 25

No. 154

### LUGER AUTOMATIC PISTOL HOLSTER

**No. 154**—Made of Heavy California Skirting Leather, with Hand Buckskin Wrap; Stitched Edge; the Safety Strap with Strap Button is fully as effectual as a flap for preventing gun falling out of holster; made all Plain Finish. For 30-Caliber Luger .....Each, $2 70

Always Specify Model, Caliber and Length of Barrel of Revolver for which Holster is wanted

SEATTLE HARDWARE COMPANY

# HOLSTERS

## HEISER

### ALL MADE OF HEAVY SKIRTING LEATHER

No. 290

**No. 290**—Made for Model 1905 S. & W. Revolvers 32 and 38 Caliber 4, 5, and 6-inch Barrels. Calfskin Lined..Each, $2 25

**No. 200**—Plain Finish. For 32 and 38-Caliber Colt's Army Special and Police Positive, 4, 4½ and 6-inch Barrels, .....Each, 1 50

No. 200

No. 227

**No. 227**—Plain Finish. For Model 1905 S. & W. 32 and 38 Caliber, 4, 5 and 6-inch Barrel, Unlined, Closed Ends Each, $1 90

**No. 122**—With Hand Basket Stamped like cut, Unlined, Closed Ends. For 45 Colt's New Service, 4½, 5½ and 7½-inch Barrels.....Each, 3 00

No. 122

No. 121

**No. 121**—Full Hand Basket, Stamped all Hand Sewed, Calfskin Lined Pouch. For Colt's Army Special, 32 or 38 Caliber, 4½ or 6 inch Barrels . Each, $4 50

**No. 112** -All Plain Finish, Unlined Pouch. For Colt's Army Special, 32 or 38 Caliber, 4½ or 6-inch Barrels....Each, 3 00

No. 112

No. 195

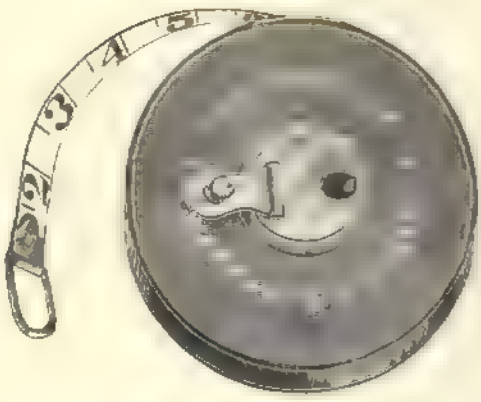
**No. 195** As cut, but Plain Finish, Unlined, Open End. For 45 Caliber Colt's New Service, 4½ and 5½-inch Barrels. ..Each, $3 80

**No. 286**—As cut, but Plain Finish, Unlined, Open End. For 32 and 38-Caliber Colt's Army Special and Police Positive, 6 inch Barrel.....Each, 2 70

No. 286

**Always Specify Model, Caliber and Length of Barrel of Revolver for which Holster is wanted.**

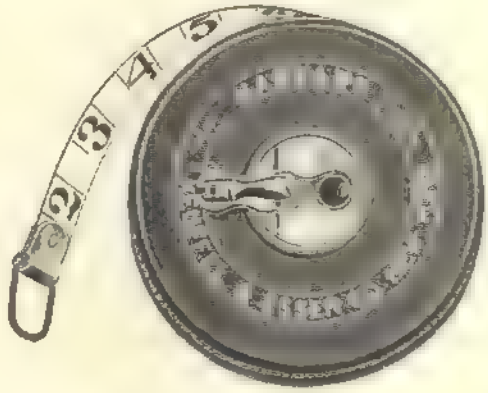
# K. & E. MEASURING TAPES



### Popular, Linen Enamel

Linen Tape ⅜ in. wide, Heavily Coated, and has a Leather Reenforced End, Stout Bent Leather Case, with Durable Center and Flat Folding Handle, Nickel Plated Mountings. Graduations begin at end of ring. Graduations in 12ths of feet.

| No. | Length. | Weight. | | Each. |
|---|---|---|---|---|
| 7512T | 50 ft. | 13 oz. | ..... | $1 60 |
| 7515T | 100 ft. | 21 oz. | ..... | 2 40 |



### Harvard, Metallic

Metallic Tape ½ in. wide, Stout Bent Leather Case, with Patent Center, Long Flush Folding Handle operated by pushing pin from opposite side of case. Nickel Plated Mountings. Tape interwoven with metal, leather reenforced end. Graduations in 12ths of feet beginning at outside end of ring.

| No. | Length. | Weight | Each. |
|---|---|---|---|
| 7422T— | 50 ft. | 16 oz | $2 75 |
| 7424T— | 75 ft. | 20 oz | 3 35 |
| 7425T— | 100 ft. | 24 oz | 4 10 |

## K. & E. STEEL TAPES

### Keco Finish

The KECO FINISH produces a dense even black Tape Line with brilliant bright steel graduations and figures. The finish wears well, guards against rusting, obviating the necessity of greasing the line to protect it. The cases are now made with patent adjustable center, allowing readjustment for wear at the center and maintaining just the friction desired.

### Cornell, Steel

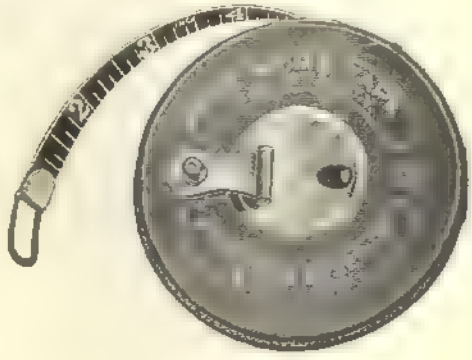
Steel Tape ⅜ in. wide, Stout Bent Leather Case, Patent Center, Long Swiveling Flush Folding Handle, opened by pushing handle pin from opposite side of case. Center adjustable for wear, Nickel-Plated Mountings. Graduations begin at outside end of ring.

Graduations in 12ths of feet.

| No. | Length. | Weight. | | Each. |
|---|---|---|---|---|
| 7252T | 50 ft. | 12 oz. | ..... | $ 5 05 |
| 7254T | 75 ft. | 17 oz. | ..... | 9 60 |
| 7255T | 100 ft. | 20 oz. | ..... | 11 85 |

Graduations in 10ths of feet.

| No. | Length. | Weight. | Each. |
|---|---|---|---|
| 7252D | 50 ft | 12 oz | $8 75 |
| 7254D | 75 ft | 17 oz | 9 60 |
| 7255D | 100 ft. | 20 oz | 11 85 |



### Home, Steel

Steel Tape ⅜ in. wide, Stout Bent Leather Case. Large Center, Long Folding Handle, Center is adjustable for wear, Nickel Plated Mountings. Graduations begin at outside end of ring, graduated in 12ths of feet.

| No. | Length. | Weight | Each. |
|---|---|---|---|
| 7350T - | 25 ft. | 7½ oz. | $3 20 |
| 7352T— | 50 ft | 12 oz | 3 90 |
| 7354T | 75 ft | 16 oz. | 5 40 |
| 7355T— | 100 ft. | 18 oz | 6 60 |

ALL OF ABOVE ONE IN A BOX

SEATTLE HARDWARE COMPANY

# MEASURING TAPES

## K. & E. STEEL

### Liliput, Steel

Steel Tape ¼ in. wide, Stout Bent Leather Case. Patent Center, Long Swiveling Flush Folding Handle, opened by pushing handle from opposite side of case. Center adjustable for wear, Nickel Plated Mountings. Graduated in 12ths of feet.

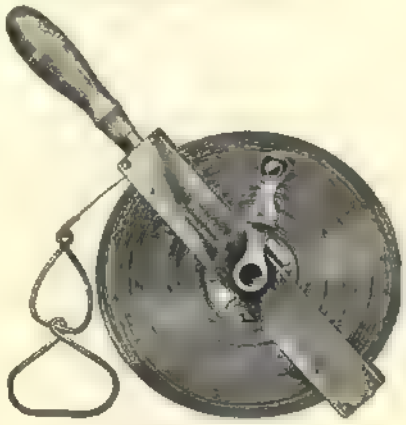
| No. | Length. | Weight. | Each |
|---|---|---|---|
| 7270T— | 25 ft. | 5 oz. | $3 65 |
| 7272T— | 50 ft. | 7 oz. | 4 45 |

### Midget, Steel

Steel Tape ¼ in wide, Stout Bent Leather Case, Large Center, Long Folding Handle. Center adjustable for wear, Nickel Plated Mountings. Graduations begin at the outside end of ring. Graduated in 12ths of feet.

| No. | Length. | Weight. | Each |
|---|---|---|---|
| 7360T— | 25 ft. | 4¼ oz. | $2 90 |
| 7362T— | 50 ft. | 6½ oz. | 3 40 |

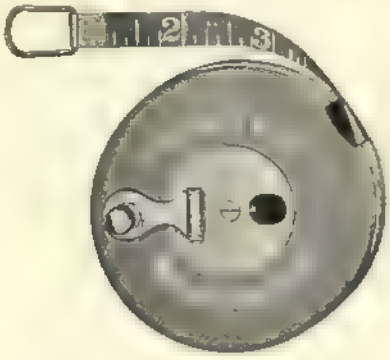
## ENGINEER'S TAPE



### Ironclad, Band Chain

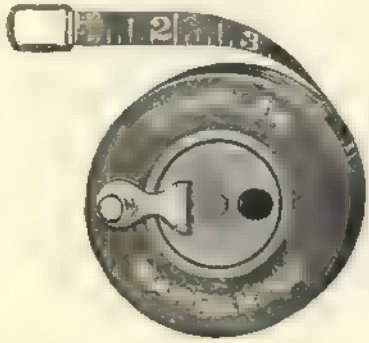
Heavy Black Steel Ribbon ¼ in wide. Keco finish. Etched Graduations at each foot, end feet to 10ths and 100ths graduations, etched for rough work, large winding center, Nickel-Plated Mountings.

| No. | Length. | Weight. | Each |
|---|---|---|---|
| 7664B | 100 ft. | 3 lbs. | $5 75 |
| 7664C— | 200 ft. | 4½ lbs. | $8 75 |



## STANDARD STEEL

Highest quality steel tapes, black background and bright figures, rustless. Case is made of pressed steel, electro copper plated and then heavily galvanized, making them thoroughly rust proof. Fully Guaranteed in every particular.



### Starco

⅜-in. Steel Tape. New Improved Winding Drum. Nickel Plated Pressed Steel Case. Graduations in 12ths.

| No. | Length. | Weight Each. | Each. |
|---|---|---|---|
| K220 | 25 ft. | 8 oz. | $2 15 |
| K222 | 50 ft. | 12 oz. | 2 85 |
| K224 | 75 ft. | 16 oz. | 3 75 |
| K225 | 100 ft. | 20 oz. | 4 85 |

### Simplex

⅜-in. Steel Tape. New Improved Winding Drum. Hard Leather Case, Steel Lined. Graduations in 12ths.

| No. | Length. | Weight Each. | Each. |
|---|---|---|---|
| J210 | 25 ft. | 8 oz. | $2 65 |
| J212— | 50 ft. | 12 oz. | 3 25 |
| J214— | 75 ft. | 16 oz. | 4 25 |
| J215 | 100 ft. | 20 oz. | 5 75 |

# RIFLE SIGHTS

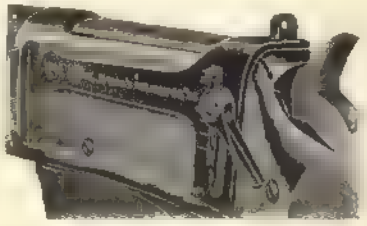
LYMAN

No. 1 –Combination, Rear. Each, $3 00

No. 1A– Combina'n, Rear. Each, $3 00

No. 2A—Combination, Rear, with Cup Disc ..... Each, $3 50

LYMAN



No. 21 Receiver, Rear ..... Each, $3 50

SHEARD'S

End and Quartering View.

No. 13 Sheard's Patent Gold Bead Front Sight, for all Rifles and Pistols ..... Each, $1 50

LYMAN

No. 3.

No. 4.

No. 20.

No. 28.

No. 26.

No. 12.

No. 3 Ivory Bead, Front ..... Each, $1 00
No. 4 Ivory Hunting, Front ..... " 50
No. 20—Ivory Jack, Front ..... " 1 00
No. 28—Ivory Semi-jack, Front ..... " 1 00
No. 26—Bead, Front ..... " 50
No. 12 Slot Blank ..... " 25

LYMAN

No. 5.
With Globe. With Ivory.

No. 6.
Both leaves folded down. Using the straight bar. Using the crotch

No. 10. Front
No. 11. Rear

No. 5—Ivory Combination, Front ..... Each, $1 00
No. 6 Leaf ..... " 1 00
No. 10—Shotgun, Front ..... " 50
No. 11 Shotgun, Rear ..... " 50
No. 9—Set, including Front and Rear, with Reamer ..... Per Set, 1 00

*In ordering sights always give full description of rifle for which they are desired, including make, model, caliber, and whether or not it has a pistol grip.*

# RIFLE SIGHTS

**Rocky Mountain, Front**

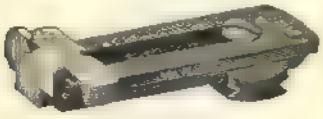
**No. 1RM**—Each..... $0 50

**Knife Blade, Front**

**No. 2KB**—Each..... $0 50

**Winchester Express, Rear**

**No. 3E**—Each..... $1 50



**Carbine, Rear**

**No. 4C**—Each..... $1 25

**Sporting, Front**

**No. 5SF**—Each..... $0 30

**Flat Top Sporting, Rear**

**No. 6SFR**—Each..... $0 80

**Sporting, Rear**

**No. 7SR** Sporting, Each, $0 80
**No. 7BH** Buckhorn, " 1 00
**Elevator** Only for above.. 20

**32 Winchester Special Model 1894, Rear**

**No. 94** For Smokeless and Black Powder. Special Model, Each, $3 00

**King's Triple Bead, Front**

**No. 65** Ivory, Gold or Black Rubber Beads, 5/16 or 3/32 in., Each, $1 50

**King's Sporting, Rear, Adjustable**

**No. 8** Flat Top . . Each, $1 25
**No. 9**—Semi-Buckhorn..... " 1 25
**No. 10**—Carbine (only)..... " 1 25

**King's Triple Bead**

**No. 3** Carbine Sight Each, $1 50

**King's Leaf, Adjustable**

**No. 6** Flat Top Each, $1 00
**No. 7**—Semi-Buckhorn, " 1 00

**Marble's Standard, Front**

**No. 55** Ivory or Gold Bead, 5/16 or 3/32 in .Each, $1 00

**Stanbra's.**

**No. 60** Gold Bead Block . . . . Per Dozen. $18 00

*This sight is not designed for target work, but is intended for a hunting sight where very quick and accurate work is necessary. The broad block covers the game when sight is held too high. It eliminates the high shots and when used with any of the rear combination peep sights, makes the best, quickest and most accurate sight on the market.*

**Marble's Flexible Joint**

**No. 100** Marble's Flexible Joint, Rear.....Each, $3 00

No. 4 M—Sidelight.

No. 5 M—Target

**Marble's Discs**

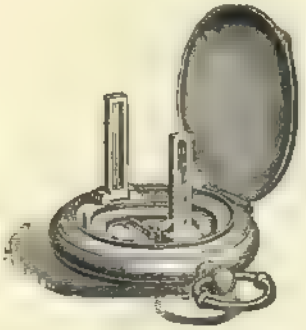
**No. 1M** Disc Only. Small Aperture . . Each, $0 25
**No. 2M** Disc Only. Large Aperture . . " 25
**No. 3M**—Disc Only, Sidelight, Small Aperture. " 50
**No. 4M**—Disc Only, Sidelight, Large Aperture, . . " 50
**No. 5M**—Disc Only, Target, Small Aperture.. " 50
**No. 6M**—Disc Only, Target, Large Aperture " 50

*IN ORDERING SIGHTS always give full description of rifle for which they are desired, including make, model, caliber, and whether or not it has a pistol grip. Marble Discs may be attached to any Marble Rear Sight.*

# COMPASSES

## POCKET

**No. 2**—2-in. Gun-metal Hunting Case, Glow Needle, Raised Dial, Graduated Metal Ring, Luminous N. & S., Agate Bearing with Stop. One of the Finest Compasses in the Market.... .....Per Dozen, $72 00



**No. 556-50** 2-in. Nickel-Plated Case, Hinged Cover, Folding Sights, Silvered Metal Dial with Full Divisions on Raised Circle, Jewel Bar Needle with Stop..... . Per Dozen, $100 00

**No. 182**—1⅝ in. Diameter, Stationary Dial, Agate Bearing.....Per Dozen, $15 00

*Marble compass is made with waterproof secure case, with double safety pin bracket, which fastens securely to coat, vest or belt.*

**No. 222-40**—1½ in. Diameter, Brass Case, with Slip Cover, Paper Dial.... ..Per Dozen, $3 00

**No. 170-2**—2 in., Nickel Plated, Slip Cover, with Floating Marine, Paper Dial .Per Dozen, $ 7 50

**No. 170-2½**—2½ in., Nickel Plated, Slip Cover, with Floating Marine, Paper Dial, per Dozen, 12 00

**No. 127**—1¾ in., Brass, with Slip Cover, Metal Dial, Jeweled Needle with Stop .Per Dozen, $15 00

**No. 127½**—2 in., Brass, with Slip Cover, Metal Dial, Jeweled Needle with Stop .Per Dozen, 18 00

# COMPASSES

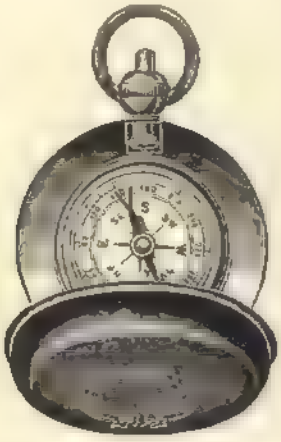
## POCKET

**No. 582-1-35** 1⅜ in Diameter, Brass Case, with Ring, Open Face, Paper Dial, .....Per Dozen, $4 00

**No. 582-1-40** 1½ in Diameter, Brass Case, with Ring, Open Face, Paper Dial, .....Per Dozen, 4 50

**No. 153-40** 1½ in Diameter, Gun metal Case, Open Face, with Swivel, Beveled Glass, Paper Dial .....Per Dozen, $6 50

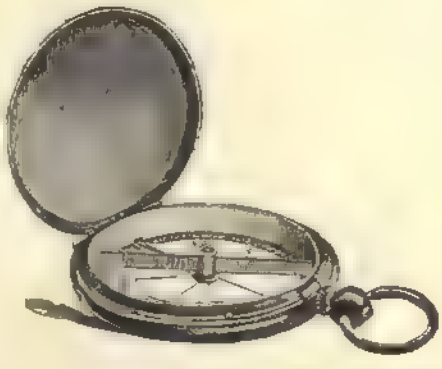
**No. 155-45** 1¾ in Diameter, Gun metal Case, Open Face, with Swivel, Beveled Glass, Paper Dial.....Per Dozen, 9 00



**No. 144-45** 1¾ in Diameter, Hunting Case, Nickel Plated, Paper Dial, with Fine Divisions.....Per Dozen, $12 00

**No. 165-45** 1¾ in Diameter, Nickel Watch Pattern, Silver Metal Scale, Jeweled Needle with Stop.....Per Dozen, $18 00

**No. 136-45**—1¾ in. Diam'tr. Hunting Case, Nickel Plated, Silver Metal Dial with Fine Divisions, Jeweled Needle with Stop, .....Per Dozen, $27 00

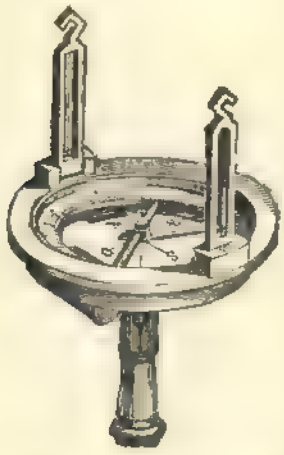


**No. 206½-40**—1½ in. Diameter, Hunting Case, Nickel Plated, Beveled Glass, Metal Dial with Fine Divisions, Bar Needle Jeweled, a very good compass, .....Per Dozen, $42 00

SEATTLE HARDWARE COMPANY

# COMPASSES

## SURVEYORS'



No. 436-90—4 in., Surveyors' Compass, Brass Case, Folding Sights, with Ball and Socket Mounting (Jacob's Staff), Silvered Metal Dial, with Full Divisions on Raised Circle, Jewel Bar Needle, with Stop, Furnished with Fine Case ..... Per Dozen, $150 00

# PEDOMETERS

## AMERICAN

No. 10

No. 100

No. 10—Registers 10 Miles Accurately, Nickeled Case ..... Per Dozen, $15 00
No. 100—Registers 100 Miles Accurately, Nickel Case. ..... " 24 00

# MINERS' DUST GOGGLES

No. 50 Dust or Snow Glasses, with Smoked Lens, all parts in contact with the face made of Leather ..... Per Dozen, $8 00
No. 83 Dust Goggles for Miners or Automobilists, Smoked Glass with Aluminum Eyepiece, trimmed with Black Leather ..... Per Dozen, 5 00
No. 89 Similar to No. 83, but with Metal Eyepiece, trimmed with better quality of Black Leather, and larger, ..... Per Dozen, 7 00
No. 87 Same as No. 89, but trimmed with Tan-Colored Leather, Plush Bound ..... " 9 00
No. 85 Same as No. 87 except all parts coming in contact with face are Leather Bound ..... " 10 00
No. 89W Same as No. 89, Smoked but with White Glasses ..... " 7 00
No. 922 —Smoked Snow Glasses ..... " 4 00
No. 954 —Cases for No. 922 Glasses ..... " 2 00

# SAFETY RAZORS

EVER-READY

ENDERS'

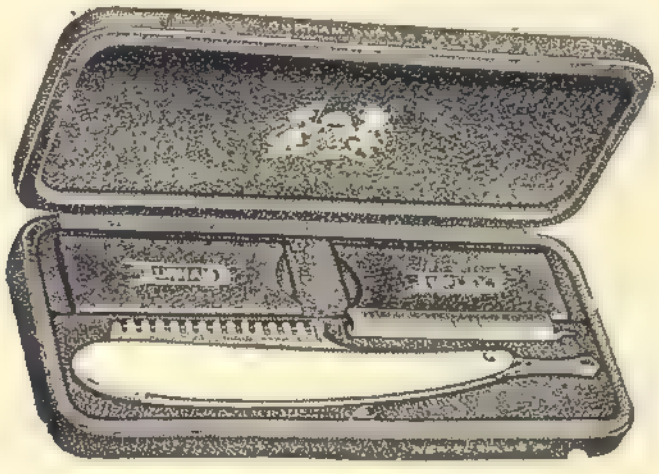
## Ever-Ready

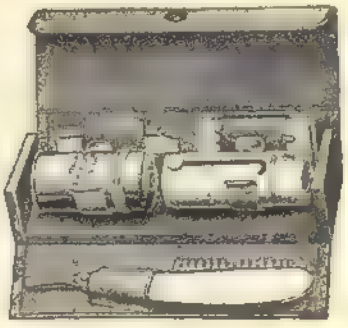
**Ever-Ready** Nickel-Plated, Adjustable Frame Complete with Twelve Blades in a Leatherette Case . . . . . Per Dozen Sets, $12 00
**Extra Blades**—Set of Ten . . . . . Per Set, 75

## Enders'

**Enders'**—With a Solid Steel Knurled Handle, Firmly Fitted to the Blade Holder, and is Very Simple of Operation. Put up in an Attractive Plush Lined Box Complete with Five Blades . Per Dozen, $12 00
**Extra Blades**—Five in a Set . . . . . Per Set, 50
**Enders' Razor Strops** . . . . . Per Dozen, 6 00

## DURHAM DUPLEX





**No. 500** Plush, Silver Plated Set, Razor Safety Guard, Stropping Attachment and Six Blades . . Per Set. $5 00
**No. 500**—Chamois Silver Plated Set Razor Safety Guard, Stropping Attachment and Six Blades " 7 00
**No. 600** Genuine Pig-skin, Silver-Plated Set, Razor Safety Guard, Stropping Attachment and Six Blades " 6 00
**No. 750**—Genuine Pig-skin, Gold-Plated Set, Razor Safety Guard, Stropping Attachment and Six Blades " 7 50
**No. 800 Hold-All** Consists of Silver Plated Razor, Collapsible Rubber Set Brush of Finest Badger Hair, and Shaving Stick in Nickel Plated Tube Genuine Pig skin Case . . . . . Per Set, 8 00
**No. 250 Durham-Derby** Shank and Safety Attachment, Heavily Nickel Plated, Regulation Black Handle, Six Blades, in a Nickel Plated Plush-Lined Box . . . . . Each, 2 50

**Durham Demonstrator Razors** . . . . . Each, 35
**Combination Strop** . . . . . " 1 50
**Combination Strop Attachment Only** . . . . . " 50
**Extra Durham Blades** . . . . . Per Dozen, 1 00

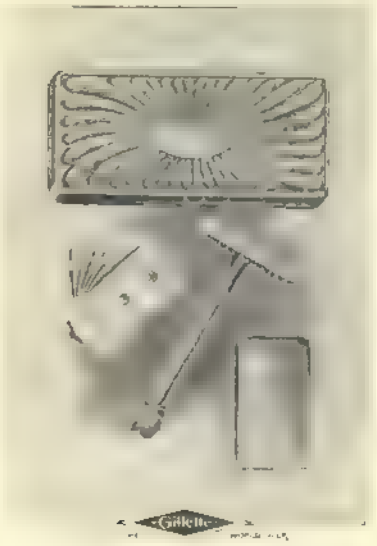
# SAFETY RAZORS

## GILLETTE

Pocket Edition

Metal Case, Velvet Lined

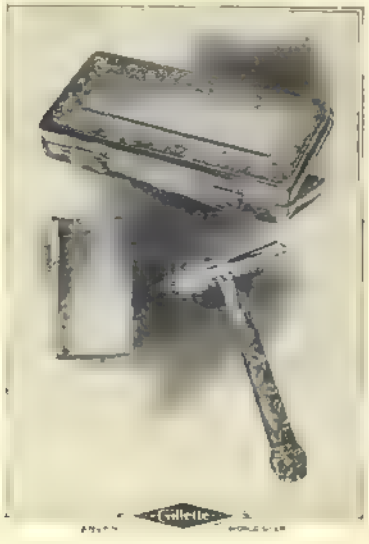
| | | Each |
|---|---|---|
| **No. 500** | —Triple Silver-Plated Case and Razor | $5 00 |
| **No. 500A** | —Gun-metal Case and Gold Plated Razor | 5 50 |
| **No. 500B** | —Gold Plated Case and Gold-Plated Razor | 6 00 |
| **No. 500C** | —Silver-Plated, Satin-Finish Case and Silver-Plated Razor | 5 00 |



Pocket Edition

Metal Case, Velvet Lined

| | | Each |
|---|---|---|
| **No. 502** | —Triple Silver-Plated Case and Razor | $5 00 |
| **No. 502A** | —Gun-metal Case and Gold-Plated Razor | 5 50 |



Pocket Edition

Metal Case, Velvet Lined

| | | Each |
|---|---|---|
| **No. 503** | Triple Silver Plated Case and Razor | $5 00 |
| **No. 503A** | —Gun metal Case and Gold Plated Razor | 5 50 |
| **No. 503B** | —Gold-Plated Case and Gold-Plated Razor | 6 00 |

Pocket Edition

Leather Case, Velvet-Lined

| | | Each |
|---|---|---|
| **No. 505** | —Black Cowhide Case and Triple Silver-Plated Razor | $5 00 |
| **No. 505BP** | —Black Pig skin Case and Gold Plated Razor | 6 00 |

# SAFETY RAZORS

## GILLETTE

**Standard Outfit**

Velvet-Lined

**No. 460** —Morocco Leather Case, Triple Silver-Plated Razor ..... Each, $5 00

**No. 460B** Nickel Plated Metal Case, Triple Silver-Plated Razor ..... Each, 5 00

**Combination Set**

**No. 461**—Consists of Triple Silver-Plated Razor, Metal Box Containing 12 Double-Edged Blades, Telescope Pattern Badger Hair Shaving Brush, Stick of Gillette's Shaving Soap in Triple Silver Plated Holder. Each, $6 00

**Standard Combination Set**

Consists of razor, badger hair shaving brush and stick of Gillette's shaving soap in triple silver plated holders, two metal blade boxes, with 12 double edged blades

**No. 00** —Triple Silver Plated Razor in a Seal Leather Case ..... Each, $6 50

**No. 00BP**—Triple Silver-Plated Razor in a Pig-skin Case ..... Each, 8 00

**No. 00G** —Gold Plated Razor Contained in Best Morocco Case ..... Each, 10 00

**Combination Set**

Consists of triple silver-plated razor, fine quality badger hair shaving brush and stick of Gillette's shaving soap in triple silver plated holder, two metal blade boxes with 12 double edged blades, plate glass mirror, all contained in seal leather case

**No. 421** ..... Each, $9 00

**Extra Blades**

Blades in Sets of 6 ..... Per Set, $0 50

Blades in Sets of 12 ..... " 1 00

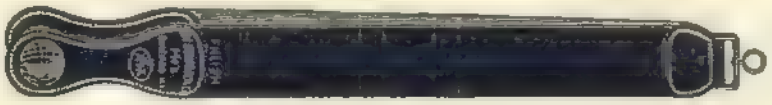
SEATTLE HARDWARE COMPANY

# RAZOR STROPS

**No. 014**—Rainier, 22x2-in., Combination Swing, Horsehide, and Filled Canvas, Enameled Wood Handle, Tinned Wire Swivel..... Per Dozen, $3 50

**No. 04**— 20x2-in. Double Swing, Horsehide and Filled Lisle Webbing ....Per Dozen, $4 00

**No. 50**— 16x1 ¼ in , Double Swing, Horsehide Sharpen and Genuine Shell Finish Strop ... ... . . Per Dozen, $6 00



**No X4X**— 22x2-in., Good Quality Double Leather, Red and Black, Self-Honing... ..Per Dozen, $8 00

**No. 34**—21½x2¼-in., Double Swing, Red and Black Horsehide, Stitched Handles.. . . . ..Per Dozen, $8 00

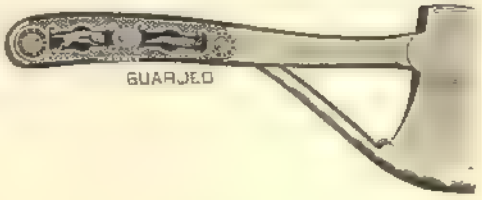
**No. 770**—25 x 2¼ in , Combination Red American Horsehide and Black Calfskin, Red Padded Handle, Heavy Nickel Military Swivel..... ....Per Dozen, $10 00

# AXES

## MARBLE'S SAFETY POCKET

No. 2P

No. 2½




No. 4

**No. 2** —Solid Steel Blade, Rubber Handle, Length 11 in., Weight 20 oz..... ...Each, $2 50
**No. 2P**—Solid Steel Blade, Rubber Handle with Folding Pick, Length 11 in..... " 4 00
**No. 2½**—With Nail Claw, otherwise same as No. 2..... " 2 75
**No. 3** —Solid Steel Blade, Rubber Handle, Length 12 in., Weight 27 oz..... " 3 00

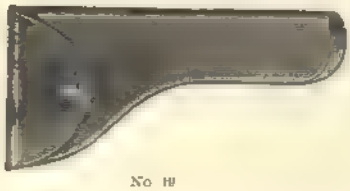
No. 5

No. 6

**No. 5**—Solid Steel Blade, Hickory Handle, Length 11 in., Weight 16 oz.. Each, $1 50
**No. 6**—Solid Steel Blade, Hickory Handle, Length 12 in., Weight 22 oz... " 1 50

# SHEATHS

## AXE



No. 19

No. 20

**No. 19**—Leather, Full Length, Plain..... ...Each, $0 75
**No. 20**—Leather, Half Length, Plain..... " 50

## KNIFE

No. 30

No. 34

**No. 6**—Russet Leather, for 7 in Blade Per Dozen, $3 00
**No. 39** -Hilt Knife, Plain, without Stone Pocket, Per Dozen, 6 00

*In ordering Knife Sheaths please state length of blade for which they are wanted.*

**No. 34**—Tube Sheath, with Aluminum Point Protector.....Per Dozen, $6 00

*This Sheath will be sent on all Marble's hunting knives described on the following page, excepting those with hilt.*

# MARBLE'S HUNTING KNIVES

## IDEAL

Hollow ground, leather handle, no hilt, with No 34 sheath.

| Nos. | 414½ | 415 | 416 | 417 | 418 |
|---|---|---|---|---|---|
| Length of Blade, in. | 4½ | 5 | 6 | 7 | 8 |
| Each | $2 00 | 2 25 | 2 50 | 2 75 | 3 00 |

Hollow ground, leather handle, with hilt, with No. 36 sheath.

| Nos. | 455 | 456 | 457 | 458 |
|---|---|---|---|---|
| Length of Blade, in. | 5 | 6 | 7 | 8 |
| Each | $2 25 | 2 50 | 2 75 | 3 00 |

Hollow ground, stag handle, no hilt, with No 34 sheath.

| Nos. | 425 | 426 | 427 | 428 |
|---|---|---|---|---|
| Length of Blade, in. | 5 | 6 | 7 | 8 |
| Each | $2 75 | 3 00 | 3 25 | 3 50 |

Hollow ground, stag handle, with hilt, with No. 36 sheath.

| Nos. | 465 | 466 | 467 | 468 |
|---|---|---|---|---|
| Length of Blade, in. | 5 | 6 | 7 | 8 |
| Each | $2 75 | 3 00 | 3 25 | 3 50 |

## CANOE

Hollow ground, leather handle, with No. 34 sheath.

| No. | 514½ |
|---|---|
| Length of Blade, in | 4½ |
| Each | $2 25 |

Hollow ground, stag handle, with No. 34 sheath.

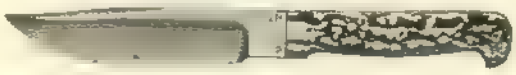
| No. | 524½ |
|---|---|
| Length of Blade, in | 4½ |
| Each | $2 75 |

## EXPERT

Razor ground, cocobolo handle, with No. 34 sheath.

| Nos. | 545 | 556 |
|---|---|---|
| Length of Blade, in | 5 | 6 |
| Each | $2 25 | 2 50 |

## SPECIAL



Bevel ground, stag handle, with No. 34 sheath

| No. | 575 |
|---|---|
| Length of Blade, in | 5 |
| Each | $2 50 |

## DeWEESE

Thin oval ground, stag handle, with No. 34 sheath.

| No. | 624 |
|---|---|
| Length of Blade, in | 4 |
| Each | $1 75 |

# HUNTING AND CAMPING KNIVES

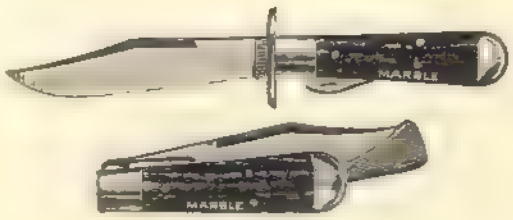
## MARBLE'S SKINNING

Thin blade, with No. 34 sheath.

| Nos. | 665 | 675 |
|---|---|---|
| Handle | Stag | Cocobola |
| Length of Blade, in. | 5 | 5 |
| Each | $1 35 | 1 50 |

## MARBLE'S SAFETY

Cross-Section of Blade.




Stag Handles.

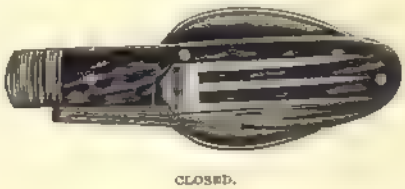
No. 834½S—4½ in. Blade, Hollow Ground, Weight 4 oz. ..... Each, $3 00
No. 855S —5 -in. Blade, Hollow Ground, Weight 6 oz. ..... " 4 00

## SAFETY FISH KNIFE

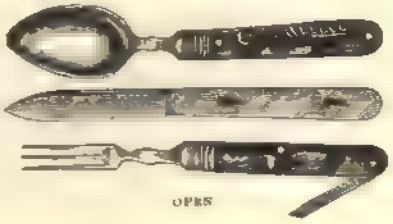
No. 784 Marble's Safety Fish Knife, 4 in Blade, German Silver Handle, Weight 3 oz ..... Each, $1 25

## OCCIDENT HUNTING

No. 0026 —Occident, 6 in Blade, Stag Handle, German Silver Guard, with Leather Sheath ..... Per Dozen, $2) 00
No. 0027 —Occident, 7 " Blade, Stag Handle, German Silver Guard, with Leather Sheath ..... " 26 00



CLOSED.



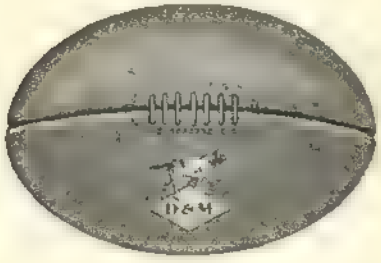
OPEN

No. 6338 Combination Knife, 4¼ in Long when closed, Bone Handles; divides in center, leaving Knife in one piece and Fork and Spoon in the other; can be taken apart in an instant, for sportsmen, prospectors, surveyors, etc. ..... Per Dozen, $55 00

SEATTLE HARDWARE COMPANY

# FOOTBALLS

## RUGBY STYLE



### Intercollegiate

**No. 500R**—Weight Size and Shape Conform to the Specifications Recognized as Official by the Leading American Colleges Highest Grade Grain Leather. Sewed with Heavy Waxed Thread. Patent Inside Lace. Bladder made of Best Pure Gum Rubber.....Per Dozen, $60 00

*Each ball furnished with inflater, rawhide lace and lacing needle, and packed in a sealed box.*

**No. 400R**—A Regulation Ball, made from the Best American Oak Tanned Grain Leather, with Pure Gum Bladder. . . . . Per Dozen, $48 00

**No. 300R**—Made of Good Quality Grain Cowhide Leather. Regulation in Size, with Pure Gum Bladder . . . . . Per Dozen, 36 00

**No. 200R** Made of Cowhide Leather, Regulation Size, with Pure Gum Bladder. . . . " 24 00

*Furnished with rawhide lacing and lacing needles.*

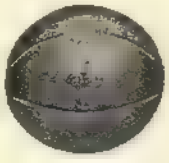
**No. 150R**—A High Grade Ball for Boys. Best India Pebbled Leather Carefully Stitched and with Genuine Para Bladder, Regular Size.....Per Dozen, 18 00

**No. 100R**—A Regular Sized Ball with Pure Rubber Bladder, made from Good Pebbled Grain Leather.....Per Dozen, 12 00

**No. 75R**—A Juvenile Football, Regular Rugby Shape, Complete with Bladder ..... " 9 00

**No. 50R**—Baby Rugby Football, complete with Bladder..... " 6 00

## OFFICIAL ASSOCIATION



**No. 500**—Made of the Best Imported English Grain Leather, Strongly Sewed with Heavy Waxed Thread, and Welted Seams Pure Gum Bladder, Guaranteed to Comply with Official Specifications in Weight, Size, etc. . . . . Per Dozen, $60 00

**No. 400**—A Regulation Sized Ball, made from American Oak Tan Leather, Pure Gum Bladder .Per Dozen, $48 00

*Each ball furnished with inflater, rawhide lace and lacing needle, and packed in a sealed box.*

## RUGBY BLADDERS

**No. 125R**—Extra Heavy Pure Gum, Gray Used in No 500R Ball.. . . . . Per Dozen, $15 00

**No. 100R**—Standard Weight, Pure Gum, Gray Used in Balls Nos. 200R, 300R and 400R, inclusive.. " 12 00

**No. 75R**—Pure Gum. Used in Balls No. 100R and 150R..... " 9 00

**No. 50R**—Used in Ball No. 75R.. . . . . " 6 00

**No. 25R**—Used in Ball No. 50R... . . . . " 3 00

## ASSOCIATION BLADDERS

**No. 125**—Extra Heavy, Pure Gum, Gray. Used in Ball No. 500.. . . . . Per Dozen, $15 00

**No. 100**—Standard Weight, Pure Gum, Gray. Used in Ball No. 400 . . . . " 12 00

## INFLATERS

**No. 25**—Football Inflaters, Pocket Size, with Special Nickel Finish, 5½ in Cylinder . . . . . Per Dozen, $3 00

**No. 75**—Football Inflaters, Club Size, with Special Nickel Finish, 10-in Cylinder . . . . . " 9 00

## GUIDE

**No. 10**—The Official Football Guide.....Per Dozen, $1 20

SEATTLE HARDWARE COMPANY

# FOOTBALL ACCESSORIES

## SHIN GUARDS

Cane Ribs

| No. | | Per Doz. Pair |
|---|---|---|
| 25 | Boys', Brown Drill | $3 00 |
| 50 | Brown Canvas | 6 00 |
| 100 | Drab Duck | 12 00 |
| 150 | Black Calf | 18 00 |

## NOSE GUARD

| No. | | Per Doz |
|---|---|---|
| 100 | D. & M., made of finest Rubber | $6 00 |

## SHOULDER PADS

Nos. 50 and 100

No. 250

| No. | | Per Doz. Pair |
|---|---|---|
| 50 | Combination Shoulder and Collar-bone Pad; covered with canvas and filled with curled hair; quilted | $6 00 |
| 100 | Combination Shoulder and Collar-bone Pad; covered with leather and filled with curled hair | 12 00 |
| | | Per Doz. |
| 250 | Combination Shoulder and Collar bone Pad; made of thick gray felt padding, re-enforced with leather to protect collar-bone; moulded leather-covered shoulder caps | $30 00 |

## ELBOW AND KNEE PADS

Nos. 50 and 75

No. 100

No. 125

| No. | | Per Doz. Pair |
|---|---|---|
| 50 | Elbow Pad; canvas-covered and quilted | $6 00 |
| 75 | Elbow Pad; leather-covered and and quilted | 9 00 |
| 100 | Elbow or Knee Pad; made of sheep shearlings (sheepskin tanned with the wool on), held in place with heavy elastic band. | 12 00 |
| 125 | Elbow or Knee Pad, made of asbestos felt covered with khaki cloth, held in place with wide elastic bands at each end | 15 00 |

## HEAD AND EAR PROTECTORS

No. 350

Nos. 200 and 150

| No. | | Per Doz. |
|---|---|---|
| 350 | Made of best Russet Strap Leather, whole crown, open sides, padded with best white felt, adjustable to any size head, elastic chin piece | $42 00 |
| 200 | Made of soft Black Leather, crown and ears heavily padded with soft padding well ventilated | 24 00 |
| 150 | Soft Leather top and trimmings, moleskin sides, well ventilated and nicely padded | 18 00 |
| 100 | A soft Helmet of special drab Moleskin | 12 00 |

# FOOTBALL ACCESSORIES

## CANVAS PANTS

**No. 200** Heavy Duck, cane thighs, extra heavy pads at knee and hips, patent lace front.....Per Dozen, $24 00

**No. 100** Tan Canvas, cane thighs and patent lace front.....Per Dozen, 12 00

## UNION SUITS

**No. 400**—Best quality Heavy Duck, with padded hips, cane thighs, elastic belt waist joint, pants and jacket.....Per Dozen, $48 00

**No. 300** Special Tan Canvas, with cane thighs, patent lace front.....Per Dozen, 36 00

## SWEATER COATS

### Ruff-Neck

**No. 500**—Heavy weight, full fashioned Sweater Coat, with pockets.....Per Dozen, $60 00

COLORS, MAROON AND LIGHT OXFORD. STOCK SIZES 36, 40, 42, 44 AND 46

**No. 600** Medium weight Wool Sweater, with pockets.....Per Dozen, $72 00

COLORS, CARDINAL AND LIGHT OXFORD. STOCK SIZES 38, 40, 42, 44 AND 46 WHITE, 38, 40, 42

**No. 700**—Extra heavy, finest quality, broad ribbed, with pockets.....Per Dozen, $84 00

COLORS, MAROON, LIGHT OXFORD AND CARDINAL. STOCK SIZES, 38, 40, 42, 44, 46

## JERSEYS

### Taped Neck

**No. 200** Cotton Jersey, closely resembling worsted.....Per Dozen, $24 00

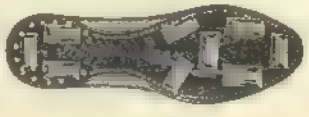
**No. 250** Best quality Worsted Jersey, 30 00

COLORS, OXFORD, MAROON OR NAVY. STOCK SIZES, 36, 38 AND 40

## FOOTBALL SHOES

**No. 350**—Calf Leather upper, machine sewed, good quality oak sole, Brown cleats and licensed steel protection plates.....Per Pair, $3 50

**No. 500**—Genuine Kangaroo upper, machine-sewed heavy oak sole, Brown cleats, licensed steel protection plates, furnished with rawhide lacings.....Per Pair, 5 00



# CROSS-CUT SAWS

## RAINIER

Crescent Ground, 13 Gauge on Teeth, 17 Gauge on Back

| **Rainier**—Length, ft | 5 | 5½ | 6 | 6½ | 7 | 7½ | 8 |
|---|---|---|---|---|---|---|---|
| Weight each net, lbs | 7 | 7½ | 9 | 9½ | 10¼ | 11¼ | 12 |
| Each | $4 30 | 4 80 | 5 40 | 6 10 | 6 80 | 7 50 | 8 20 |

## CHINOOK

Crescent Ground, 13 Gauge on Teeth, 17 Gauge on Back

| **Chinook**—Length, ft | 5 | 5½ | 6 | 6½ | 7 | 7½ | 8 |
|---|---|---|---|---|---|---|---|
| Weight each net, lbs | 7 | 7½ | 9½ | 10 | 10½ | 11 | 12 |
| Each | $4 30 | 4 80 | 5 40 | 6 10 | 6 80 | 7 50 | 8 20 |

## ROYAL CHINOOK

Crescent Ground, 13 Gauge on Teeth, 17 Gauge on Back

| **Royal Chinook**—Length, ft | 6 | 6½ | 7 | 7½ | 8 | 8½ | 9 |
|---|---|---|---|---|---|---|---|
| Weight each net, lbs | 8¼ | 10¼ | 12¾ | 13¾ | 14½ | 15½ | 16½ |
| Each | $8 00 | 9 00 | 10 00 | 11 00 | 12 10 | 13 30 | 14 50 |

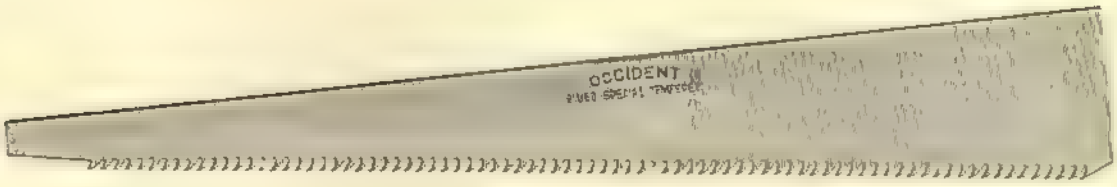
## ROYAL CHINOOK, FALLING

Crescent Ground, 13 Gauge on Teeth, 17 Gauge on Back

| **Royal Chinook, Falling**—Length, ft. | 6 | 6½ | 7 | 7½ | 8 | 8½ | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| Weight each net, lbs | 6 | 7½ | 9 | 9½ | 10 | 11 | 12 | 13½ | 15 | 17 |
| Each | $8 00 | 9 00 | 10 00 | 11 00 | 12 10 | 13 30 | 14 50 | 17 10 | 20 00 | 23 00 |

# SAWS

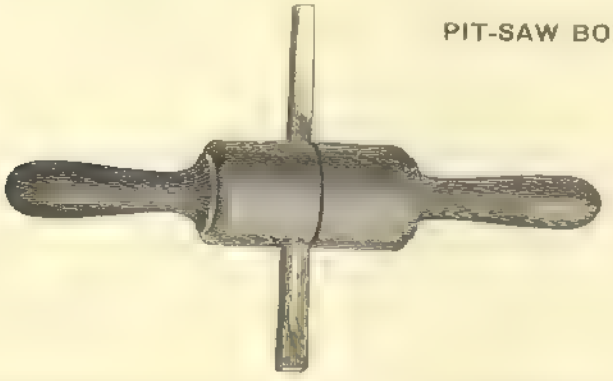
## PIT

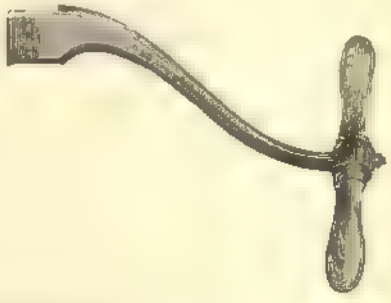



Special Temper—Blued or Polished

| | | |
|---|---|---|
| **Occident**—Length, ft | 6 | 7 |
| Width Butt, in | 10⅜ | 11 |
| Weight each net, lbs | 8½ | 12 |
| **Blued** | Each, $6 00 | 7 00 |
| **Polished** | 6 00 | 7 00 |

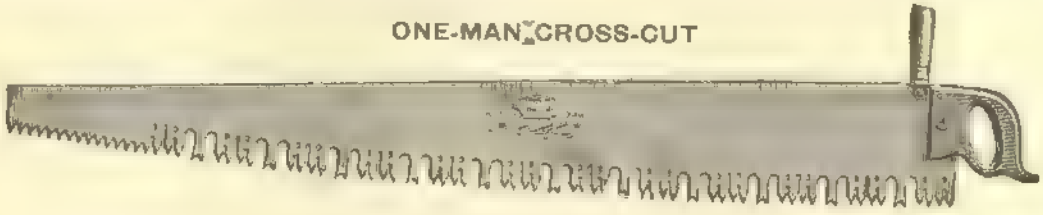
## PIT-SAW BOX AND TILLER





**Box** Weight each 3 lbs . . . Each, $1 00 **Tiller** Weight each 5 lbs. . . . . Each, $1 25

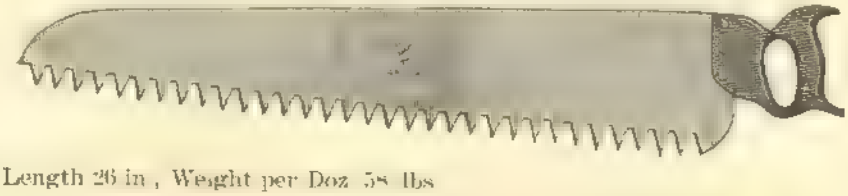
## ONE-MAN CROSS-CUT



No. 222 Simonds

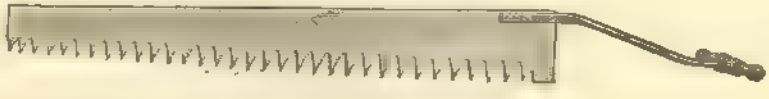
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Length, ft** | 2½ | 3 | 3½ | 4 | 4½ | 5 | 5½ |
| Weight each net, lbs | 3 | 3¾ | 4¼ | 5½ | 6½ | 7 | 8 |
| Each | $2 00 | 2 25 | 2 60 | 3 00 | 3 35 | 3 70 | 4 10 |

## ICE



**No. 10**—Iron Handle. Length 26 in., Weight per Doz 5⅝ lbs . . . Per Doz., $24 00

## POND ICE

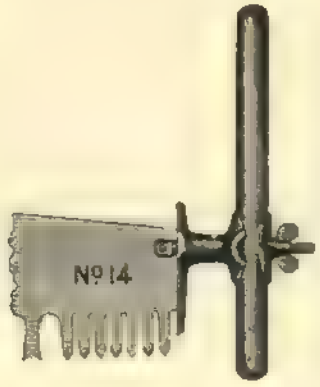


**No. 54**—4½ ft., Tapered, 7-in Butt, 5-in Point, with Tiller Handle . . . Each, $5 30

SEATTLE HARDWARE COMPANY

# SAW HANDLES

## CROSS-CUT



**No. 9**—Loop, Reversible, Weight Doz. 20 lbs..... Per Single Dozen, $3 50
**No. 14**—Loop, Reversible, Weight Doz. 24 lbs..... " " 7 50
**Simonds Reversible**, Weight Doz. 30 lbs..... " " 6 00

## PANEL, HAND AND RIP

Nos 3 to 12

## ONE-MAN CROSS-CUT

Nos 15 and 015

## ONE-MAN SUPPLEMENTARY

No 25

### Panel, Hand and Rip, not Bored

| Length of Saw, inches | 18 and 20 | 22 and 24 | 26 | 28 |
|---|---|---|---|---|
| **No. 3**—Beech, Average Weight per Doz. 6 lbs. | Per Doz., ..... | ... | $1 50 | . . |
| **No. 7**—Beech, Average Weight per Doz. 7 lbs. | " $2 25 | 2 25 | 2 50 | 2 75 |
| **No. D8**—Apple, Average Weight per Doz. 8 lbs. | " 3 00 | 3 25 | 4 00 | 4 25 |
| **No. 12**—Apple, Carved, Average Weight per Doz. 9 lbs. | " .... | 5 50 | 6 50 | 6 75 |

### One-Man Cross-Cut

**No. 15**—One-Man Cross-Cut, Average Weight per Doz. 10 lbs..... Per Dozen. $3 75
**No. 015**—Cold Weather. One-Man Cross Cut, same as No. 15, but can be used with glove on hand, as the opening is larger..... " 5 00
**No. 25**—One-Man Supplementary, Average Weight per Doz., 6 lbs. " 2 50

# SAW SCREWS

No 1

No 2

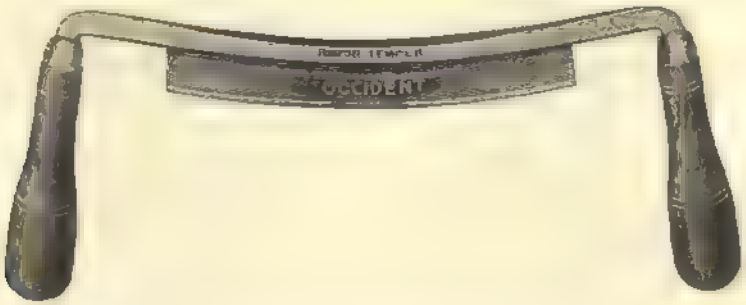
Nos. 3 and 4

**No. 1**—Centennial, Flush. ..Per Gross, $4 20
**No. 2**—Centennial, Flush . " 5 10
**No. 3**—Centennial, Eagle.....Per Gross, $7 10
**No. 4**—Centennial, Eagle..... " 8 50

ONE-TWELFTH GRO IN A BOX

# DRAWING KNIVES

## OCCIDENT



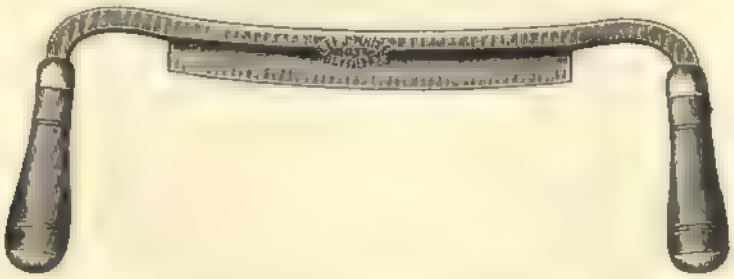

**1¾ in. Wide, Polished Hickory Handles, Capped and Ferruled**

| No. 1—Length, in. | 7 | 8 | 9 | 10 | 12 | 14 |
|---|---|---|---|---|---|---|
| Weight per Dozen, lbs. | 14 | 16 | 17 | 18 | 19 | 20 |
| Per Dozen | $13 50 | 13 50 | 14 40 | 15 60 | 18 00 | 21 00 |

ONE HALF DOZEN IN A BOX.



## L. & I. J. WHITE



**Razor Blade, 1¾ in. Wide, Black Walnut Handles, Capped and Ferruled**

| No. 31—Length, in. | 8 | 10 | 12 |
|---|---|---|---|
| Weight per Dozen, lbs. | 16 | 18 | 19 |
| Per Dozen | $21 00 | 24 00 | 27 00 |

ONE-HALF DOZEN IN A BOX

## WILKINSON FOLDING

Showing the Knife Folded Up and the Cutting Edge Protected.

One and one half inch razor blade, forged from tool steel, oil finished handles.

**No. 5**—Blade, 8 in. Weight per Dozen, 5½ lbs. ..... Per Dozen, $24 00

## P., S. & W. FOLDING

Made from Jessop's best cast steel and Norway iron, stained hardwood handles.

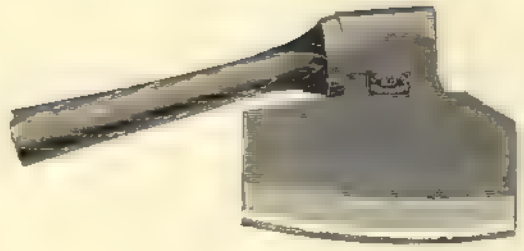
**No. 10**—Blade, 8 in. Weight per Dozen, 15¼ lbs. ..... Per Dozen, $19 00

*The handles can be placed in any position required to suit the work, and may be used in various places where a stiff-handle knife cannot be used.*

ONE-HALF DOZEN IN A WOODEN BOX

# COOPERS' TOOLS

## AXE



Handled

| No. 81—Size | 1 | 1½ |
|---|---|---|
| Width of Blade, in. | 10¼ | 9¼ |
| Net Weight per Dozen, lbs. | 66 to 72 | 60 to 65 |
| Per Dozen | $33 00 | 30 00 |

## ADZE

Handled

| No. 80—Size | 1 | 1½ |
|---|---|---|
| Width of Blade, in. | 3¼ | 3 |
| Net Weight per Dozen, lbs. | 50 | 45 |
| Per Dozen | $30 00 | 28 00 |

## DRIVERS

Nantucket—Steel, Unhandled

No. 98 Weight per Dozen, 20 lbs. Per Dozen, $15 00

Hickory—With Rings

No. 100 Weight per Dozen, 15 lbs. Per Dozen, $4 00

Short or Oval—Steel, Unhandled

No. 99 Weight per Dozen, 15 lbs. Per Dozen, $15 00

Handles for Short or Oval Drivers

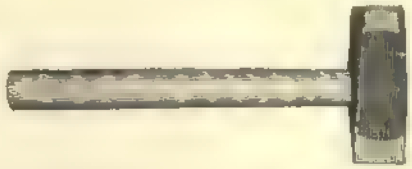
No. 199—Special Pattern Extra Second growth Hickory. Per Dozen, $6 00

## VISE

Cast Steel

No. 121—Weight per Dozen, 4 lbs. Per Dozen, $7 50

## HAMMER



Maydole's—Solid Cast Steel, Hickory Handles

| Nos. | 132 | 131 |
|---|---|---|
| Weight Each, Unhandled, lbs. | 3 | 3½ |
| Weight per Dozen, lbs. | 55 | 62 |
| Per Dozen | $15 00 | 16 50 |

ALL OF ABOVE PACKED AS WANTED

## FROES

Standard

| No. 96—Length, in. | 12 | 14 | 16 |
|---|---|---|---|
| Weight per Dozen, lbs. | 50 | 58 | 65 |
| Per Dozen | $14 00 | 14 50 | 15 00 |

TWO DOZEN IN A CASE

SEATTLE HARDWARE COMPANY

# COOPERS' TOOLS

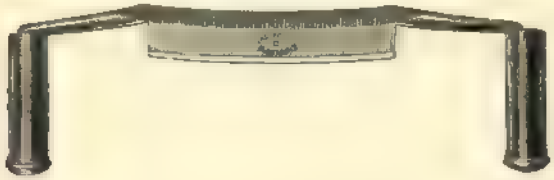
## SHINGLE SHAVE

| | | |
|---|---|---|
| **No. 37**—Length, in | **14** | **16** |
| Weight per Dozen, lbs. | 31 | 35 |
| Per Dozen | $30 00 | 33 00 |

## HOOP SHAVE

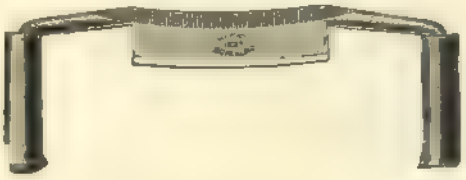
| | |
|---|---|
| **No. 87**—Length, in | 7 |
| Weight per Dozen, lbs. | 22 |
| Per Dozen | $17 00 |

## HEADING SHAVE



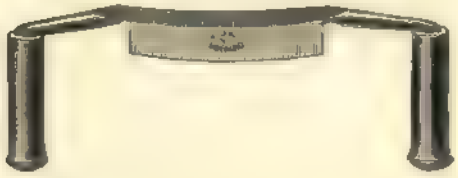
| | | |
|---|---|---|
| **No. 82**—Length, in | **10** | **12** |
| Weight per Dozen, lbs. | 38 | 40 |
| Per Dozen | $27 75 | 33 75 |

## STAVE SHAVE



| | | |
|---|---|---|
| **No. 83**—Length, in | 7 | 8 |
| Weight per Dozen, lbs. | 32 | 33 |
| Per Dozen | $18 75 | 21 75 |

## BACKING SHAVE



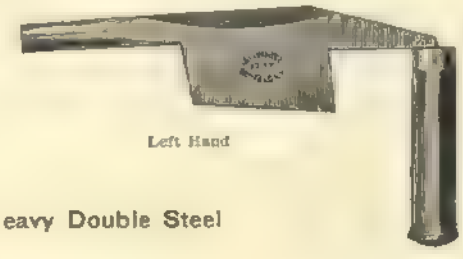
| | | |
|---|---|---|
| **No. 84**—Length, in | 7 | 8 |
| Weight per Dozen, lbs. | 30 | 32 |
| Per Dozen | $18 75 | 21 75 |

## HOLLOWING SHAVE

| | | |
|---|---|---|
| **No. 85**—Length, in | 7 | 8 |
| Weight per Dozen, lbs. | 30 | 32 |
| Per Dozen | $18 75 | 21 75 |

## CHAMPER KNIVES

Right Hand.



Left Hand

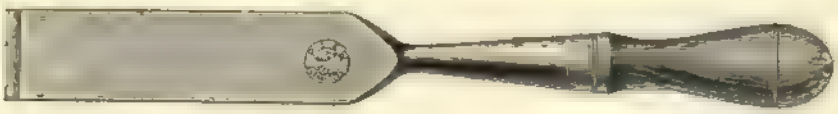
Cleveland Pattern, Extra Heavy Double Steel

| | | | |
|---|---|---|---|
| **No. 89**—Length, in | 4 | 5 | 5½ |
| Weight per Dozen, lbs | 58 | 65 | 72 |
| Per Dozen (specify Right or Left Hand) | $24 00 | 28 00 | 31 00 |

ALL OF ABOVE, ONE-QUARTER DOZEN IN A PACKAGE.

# CHISELS

## SOCKET FIRMER



Solid Cast Steel, 6-in Blades, Hickory Handles

| No. 100—Width, in | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight per Doz., lbs | 5 | 5½ | 6 | 7½ | 7¾ | 8 | 9 | 9½ | 12 | 14½ | 16½ | 18 |
| Per Dozen | $12 50 | 12 50 | 12 50 | 12 50 | 14 00 | 14 50 | 16 00 | 16 50 | 18 50 | 21 00 | 22 00 | 23 00 |

ONE-HALF DOZEN IN A WOODEN BOX

**No. 100S**—Assorted, 1/8 to 2 in., Twelve in a Set ..... Per Set, $16 70

ONE SET IN A WOODEN BOX

## P., S. & W. Bevel Edge

Solid Cast Steel, 6-in. Blades, Hickory Handles, Leather Tipped.

| No. 102—Width, in | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight per Doz., lbs | 5 | 5½ | 6 | 7½ | 7¾ | 8 | 9 | 9½ | 12 | 14½ | 16½ | 18 |
| Per Dozen | $14 00 | 14 00 | 14 00 | 14 00 | 15 50 | 16 00 | 18 00 | 18 50 | 20 50 | 22 50 | 24 00 | 25 00 |

*Add 50c per dozen net for bevel edge.*

ONE-HALF DOZEN IN A WOODEN BOX

**No. 102S**—Assorted 1/8 to 2 in., Twelve in a Set ..... Per Set, $18 50

*Add 50c per set net for bevel edge.*

ONE SET IN A WOODEN BOX

## Occident, Bevel Edge

Solid Cast Steel Blades, Mirror Finish Sharpened and Honed, Leather Capped Clear White Wood Handles

| No. 104—Width, in | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight per Doz., lbs | 4½ | 5 | 6 | 6½ | 7½ | 8½ | 9½ | 10½ | 12 | 13½ | 16½ | 20 |
| Per Dozen | $14 00 | 14 00 | 14 00 | 14 00 | 15 50 | 16 00 | 18 00 | 18 50 | 20 50 | 22 00 | 24 00 | 25 00 |

ONE-HALF DOZEN IN A WOODEN BOX

*Add $1.10 per dozen net for bevel edge and honing.*

**No. 104S**—Assorted, 1/8 to 2 in., Twelve in a Set, Packed in Hinge Covered Box. Per Set, $18 50

*Add $1.10 per dozen net for bevel edge and honing.*

ONE SET IN DOVETAILED POLISHED WOOD BOX.

## White's Bevel Edge

Solid Cast Steel Blades, Fancy Applewood Handles.

| No. 36—Width, in | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
|---|---|---|---|---|---|---|
| Weight per Dozen, lbs | 4 | 4¼ | 4½ | 5 | 5½ | 6 |
| Per Dozen | $11 50 | 12 10 | 12 80 | 14 00 | 15 00 | 15 80 |
| Width, in | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Weight per Dozen, lbs | 7 | 8 | 11 | 12 | 15 | 18 |
| Per Dozen | $17 00 | 18 00 | 20 00 | 22 00 | 24 00 | 27 00 |

ONE-HALF DOZEN IN A WOODEN BOX

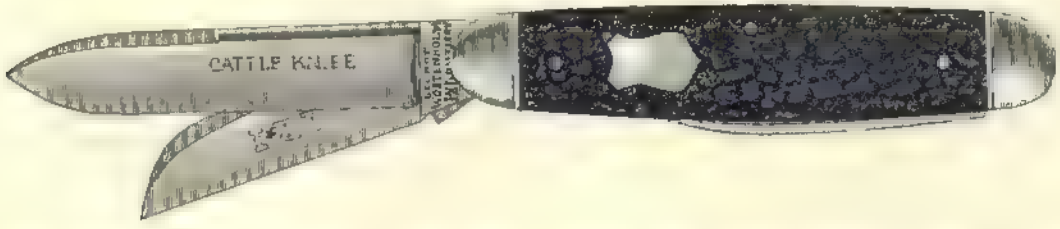
**No. 36, Set A**—Assorted, 1/8 to 2 in., Twelve in a Set ..... Per Set, $17 40

# POCKET KNIVES

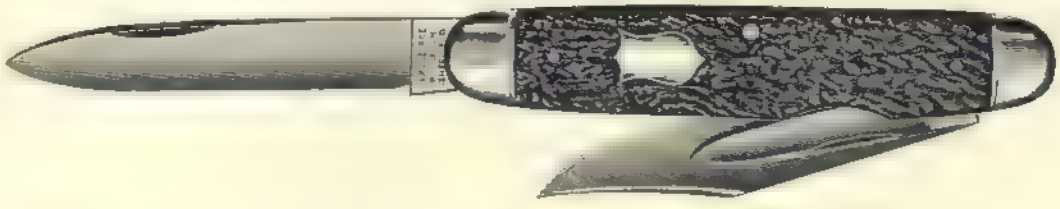
## GEORGE WOSTENHOLM'S I XL

**No. 2074** Four Blades, $3^{3}/_{8}$ in. Stag Handle, Brass Lined, German Silver Tips, Spear . . . . Per Dozen, $28 00

**No. 2217**—Two Blades, $3^{1}/_{8}$-in. Stag Handle, Brass Lined, German Silver Tips, Spear Per Dozen, $22 00




**No. 2054** Three Blades, $3^{3}/_{8}$-in. Stag Handle, Brass Lined, German Silver Bolster and Cap, Spear Per Dozen, $28 00



**No. 2177** Three Blades, $3^{3}/_{8}$-in. Stag Handle Brass Lined, German Silver Bolster and Cap, Spear and Clip..... Per Dozen, $30 00

**No. 16808** Four Blades, $3^{7}/_{8}$-in. Stag Handle, Brass Lined, German Silver Bolster and Cap, Spear Per Dozen, $36 00

FULL SIZE CUTS

ALL ABOVE ONE-HALF DOZEN IN A BOX

# POCKET KNIVES

**No. 10**—Two Blades, 2¾-in. Metal Handle, Iron Lined, Spear.....Per Dozen, $1 20

No. 1250

**No. 20**—Two Blades, 2¾-in. Metal Handle, Iron Lined, Spear, with Chain.. .Per Dozen, $1 50
**No. 12104**—Two Blades, 3½ in. Cocoa Handle, Iron Lined Spear, Steel Bolster, with Chain .. 4 00
**No. 12404**—Two Blades, 4½ in. Stag Handle, Iron Lined, Spear, Steel Bolster, with Chain . . .. 4 00

**No. 12002**—Two Blades, 3⅛ in. Metal Handle, Iron Lined, Spear . . Per Dozen, $2 00

**No. 12102**—Two Blades, 3¾ in. Cocoa Handle, Iron Lined, Polished Bolster Spear Per Dozen, $3 50

No. 27260

**No. 15986**—One Blade, 3½ in. Iron Handle, Iron Lined, Clip.. . Per Dozen, $1 70
**No. 27260**—Two Blades, 3½ in. Iron Handle, Iron Lined, Clip..... " 2 50

FULL SIZE CUTS

ONE HALF DOZEN IN A CASE

# POCKET KNIVES

## GEORGE WOSTENHOLM'S I XL

**No. 8018**—One Blade, 3½-in. Iron Handle, Iron Lined, Polished Bolster, Spear..... Per Dozen, $5 50

**No. 8019**—Two Blades, 3½-in. Iron Handle, Iron Lined, Polished Bolster, Spear..... .....Per Dozen, $9 50

**No. 2049**—Two Blades, 3½-in. Ebony Handle, Steel Lined, Polished Bolster, Spear.. ...Per Dozen, $14 00

**No. 2038**—Two Blades, 3⅝-in. Stag Handle, Steel Lined, Polished Bolster, Spear..... ..Per Dozen, $16 00

**No. 2012**—Two Blades, 3¾ in. Cocoa Handle, Brass Lined, German Silver Bolster and Cap Spear Per Dozen, $17 00

FULL SIZE CUTS

ALL ABOVE ONE-HALF DOZEN IN A BOX

SEATTLE HARDWARE COMPANY

# POCKET KNIVES

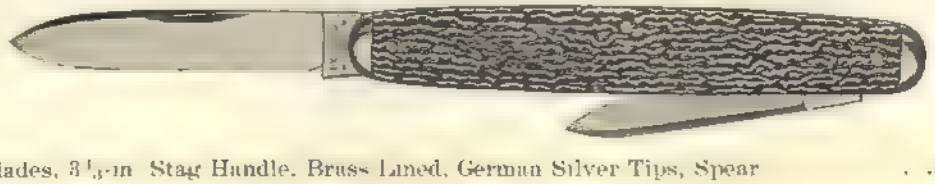
## GEORGE WOSTENHOLM'S I XL

**No. 2106**—Two Blades, 2½ in. Pearl Handle, Brass Lined, German Silver Tips, Spear . . Per Dozen, $20 00

**No. 2092** Two Blades, 2½ in Pearl Handle, Brass Lined. Spear ....Per Dozen, $16 00

**No. 2018**—Two Blades, 3⅜-in. Ivory Handle, Brass Lined, Spear..... ....Per Dozen, $16 00
**No. 2044**—Two Blades, 3⅜-in. Pearl Handle, Brass Lined. Spear .... " 20 00

**No. 2066** Four Blades, 3⅜-in. Stag Handle, Brass Lined, German Silver Tips, Spear . . Per Dozen, $26 00
**No. 2078** Four Blades, 3⅜ in. Pearl Handle, Brass Lined, German Silver Tips, Spear . . . . " 36 00



**No. 2142** Two Blades, 3⅛-in Stag Handle. Brass Lined, German Silver Tips, Spear . . Per Dozen, $18 00

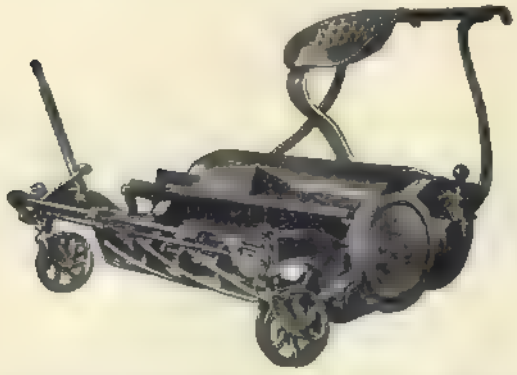
**No. 2144** Three Blades, 3½ in Stag Handle. Brass Lined, German Silver Tips, Spear Per Dozen, $27 00
**No. 2198**—Three Blades, 3½ in. Pearl Handle. Brass Lined, German Silver Tips, Spear " 40 00

FULL SIZE CUTS

ALL OF ABOVE, ONE HALF DOZEN IN A BOX

# LAWN MOWERS

## * COLDWELL "IMPROVED" HORSE



Made regular with four blades in the revolving cutter but when exceptionally fine cutting is required, such as golf links and on other fine lawns, the six-blade cutter is preferable.

Drive rollers 15 in diameter, external front drive gears, double triple pawl ratchets between rollers, diameter of revolving cutter 7 in., four or six blades, adjustable split bronze bearings, best laid steel bottom knife. Width of cut 30 to 40 inches. Has an attachment for raising the knives when crossing gravel walks and drives.

### Four Blades

Aluminum Finish, with Red and Gold Trimmings.

| | | |
|---|---|---|
| 30 in. Cut | Each, | $110 00 |
| 35 in. Cut | " | 135 00 |
| 40 in. Cut | " | 170 00 |

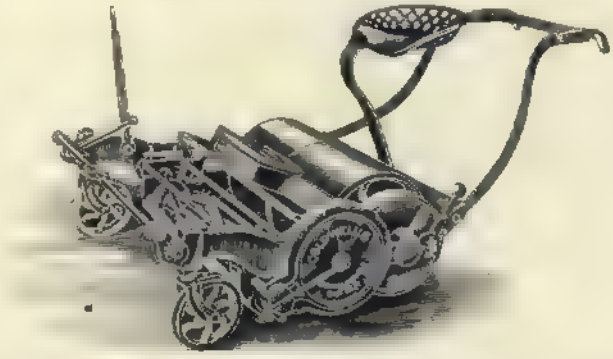
### Six Blades

Aluminum Finish, with Red and Gold Trimmings.

| | | |
|---|---|---|
| 30-in. Cut | Each, | $120 00 |
| 35-in. Cut | " | 145 00 |
| 40-in. Cut | " | 180 00 |

*Furnished complete with seat, shafts and side draft attachment.*

## * COLDWELL'S "DEMOUNTABLE" CUTTER UNIT HORSE



Drive rollers 15 in. diameter, external front drive gears, double triple pawl ratchets between rollers, diameter of revolving cutter 7 in., four or six blades, adjustable split bronze bearings, best laid steel bottom knife. Width of cut 30 to 40 inches. These mowers are equipped with Coldwell's Demountable Cutter Unit, which really makes them two lawn mowers in one.

The Demountable Cutter Unit Horse Mower is constructed upon an entirely new principle. The cutter section, which is the vital part of a lawn mower, is made into a unit and is independent and removable from the main frame of the mower. This unit consists of a simple frame containing the revolving cutter, the bottom or stationary knife and parts necessary for adjusting the same to each other. It is attached to the main frame of the mower by four locking screws and can be attached or removed in less than a minute. It being separate and independent of the main or larger frame, it relieves the knives from the twisting and strain that usually occurs in the frame of the ordinary horse mower when in use on rough ground. This unit, being the cutter section of the mower, is the only part necessary to send for sharpening or adjusting.

### Four Blades

Aluminum Finish, with Red and Gold Trimmings.

| | | |
|---|---|---|
| 30 in. Cut, with Extra Cutter Unit | Each, | $180 00 |
| 35 in. Cut, with Extra Cutter Unit | " | 220 00 |
| 40-in. Cut, with Extra Cutter Unit | " | 260 00 |

### Six Blades

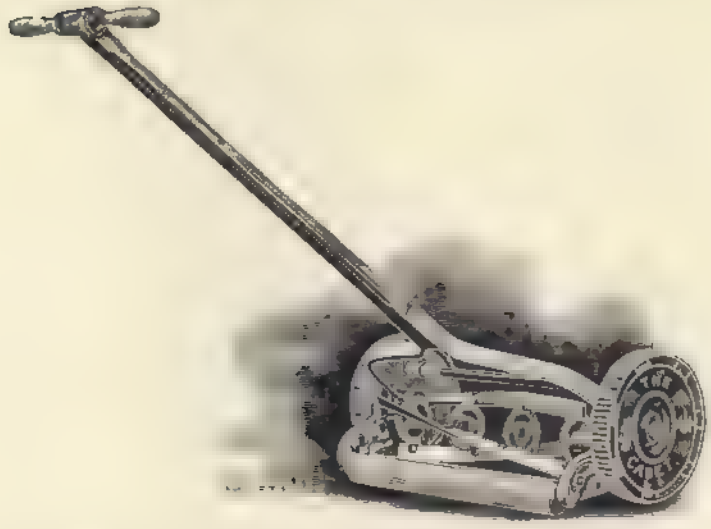
Aluminum Finish, with Red and Gold Trimmings.

| | | |
|---|---|---|
| 30-in. Cut, with Extra Cutter Unit | Each, | $190 00 |
| 35-in. Cut, with Extra Cutter Unit | " | 230 00 |
| 40-in. Cut, with Extra Cutter Unit | " | 270 00 |

*Furnished complete with seat, shafts and side draft attachment.*

** Not carried in stock. For factory shipment only.*

# LAWN MOWERS



### Rainier

3 Blades, 8-in. Wheels.

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife, Adjustable Split Brass Bearings Finish, Green and Black.

| Width Cut | Weight | Each |
|---|---|---|
| 12 in. | 35 lbs. | $5 00 |
| 14 in. | 37 lbs. | 5 50 |
| 16 in. | 39 lbs. | 6 00 |

### Cadet

3 Blades, 8-in. Wheels.

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife, Adjustable Split Brass Bearings Finish, Green and Black.

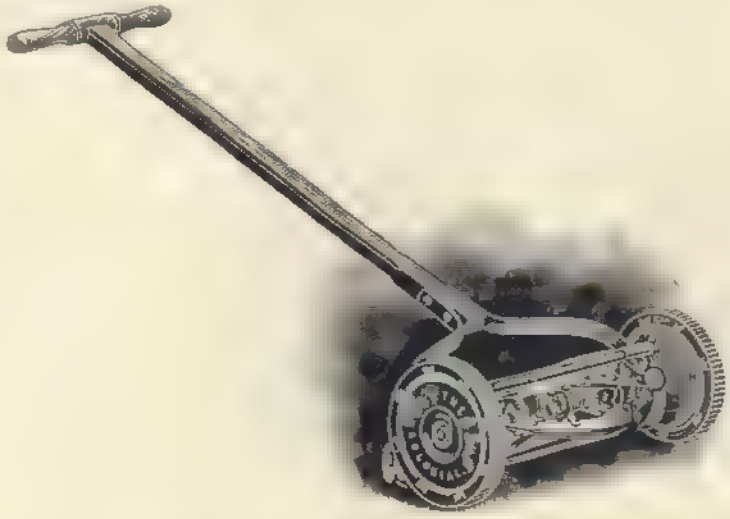
| Width Cut | Weight | Each |
|---|---|---|
| 12 in. | 35 lbs. | $4 50 |
| 14 in. | 37 lbs | 5 50 |
| 16 in. | 39 lbs. | 5 50 |

### Diamond

4 Blades, 8-in. Wheels.

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife, Adjustable Split Brass Bearings. Finish, Green and Gold with Red Stripe.

| Width Cut | Weight | Each |
|---|---|---|
| 14 in. | 37 lbs. | $5 50 |
| 16 in. | 39 lbs. | 6 00 |



### Cascade

4 Blades, 8-in. Wheels, Ball-Bearing.

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife Finish, Aluminum and Red with Gilt Trimmings.

| Width Cut | Weight | Each |
|---|---|---|
| 12 in. | 38 lbs. | $6 50 |
| 14 in. | 40 lbs. | 6 70 |
| 16 in. | 45 lbs. | 7 70 |

### Colonial

4 Blades, 8-in. Wheels, Ball-Bearing.

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife Finish, Aluminum and Red with Gilt Trimmings.

| Width Cut | Weight | Each |
|---|---|---|
| 12 in. | 38 lbs. | $6 50 |
| 14 in. | 40 lbs. | 7 00 |
| 16 in. | 45 lbs. | 7 50 |

# LAWN MOWERS

### Aloha

4 Blades, 9-in. Wheels, Ball-Bearing

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife. Finish, Aluminum, Red and Gold Trimmings.

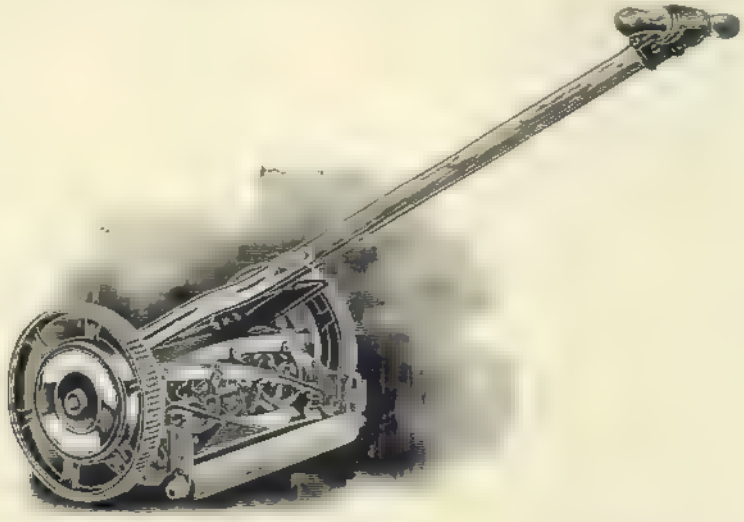
| Width Cut | Weight | Each |
|---|---|---|
| 14 in. | 50 lbs. | $10 00 |
| 16 in. | 55 lbs. | 11 00 |
| 18 in. | 60 lbs. | 12 00 |

### Lakewood

4 Blades, 9-in. Wheels, Ball-Bearing.

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife. Finish, Aluminum, Red and Gold Trimmings.

| Width Cut | Weight | Each |
|---|---|---|
| 14 in. | 50 lbs. | $10 00 |
| 16 in. | 55 lbs. | 11 00 |
| 18 in. | 60 lbs. | 12 00 |



### Rajah

5 Blades, 10¼-in. Wheels, Ball-Bearing.

Patent Double-Edged Bottom Knife. Finish, Gold and Silver, with Red Trimmings.

| Width Cut | Weight | Each |
|---|---|---|
| 14 in. | 60 lbs. | $17 00 |
| 16 in. | 65 lbs. | 19 00 |
| 18 in. | 70 lbs. | 21 00 |
| 20 in. | 75 lbs. | 23 00 |

### Occident

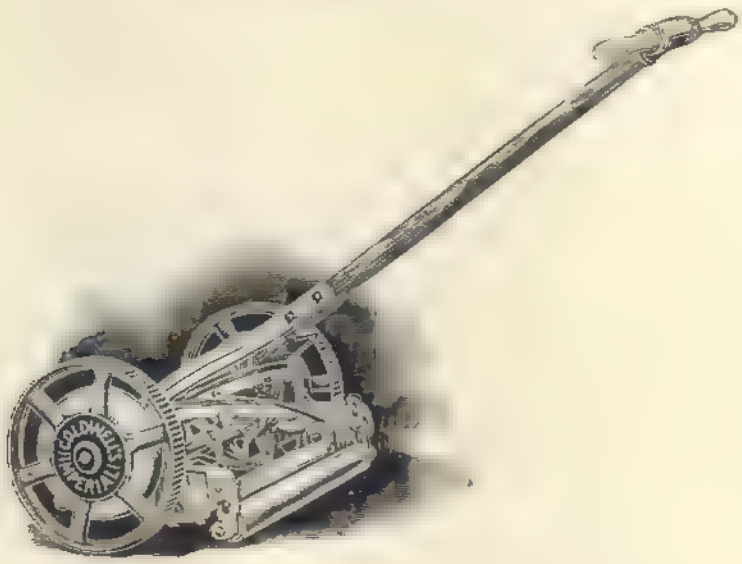
5 Blades, 10¼-in. Wheels, Ball-Bearing.

Patent Double-Edged Bottom Knife. Finish, Gold and Silver, with Red Trimmings.

| Width Cut | Weight | Each |
|---|---|---|
| 14 in. | 60 lbs. | $17 00 |
| 16 in. | 65 lbs. | 19 00 |
| 18 in. | 70 lbs. | 21 00 |
| 20 in. | 75 lbs. | 23 00 |

# LAWN MOWERS

## IMPERIAL



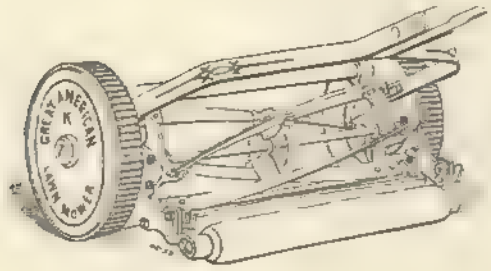

**Five Blades, 10¼ in. Wheels, Split Adjustable Brass Hanger Bearings. Finish, White and Red with Gold Trimmings**

The Imperial is the highest grade lawn mower. Made with parallel bearings; equipped with all the latest devices, such as patent reversible channel-shaped bottom knife, indestructible triple pawl ratchets, positive lock adjustment, renewable bronze bearings, and a simple construction for mowing terraces. Can be easily sharpened without removing any parts. Gears are internal direct drive.

| Width Cut | Weight, Each | Each |
|---|---|---|
| 14 in. | 60 lbs. | $21 00 |
| 16 in. | 65 lbs. | 23 00 |
| 18 in | 70 lbs. | 25 00 |

EACH IN A BOX, HANDLES SEPARATE

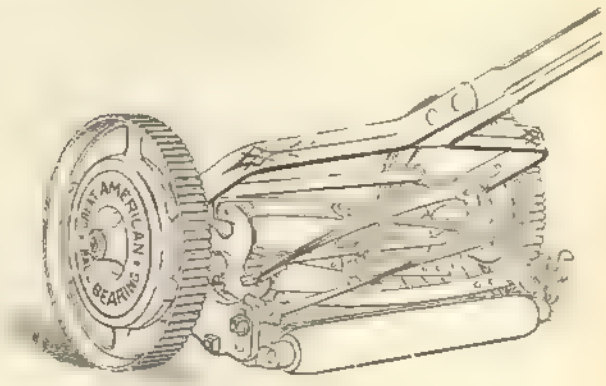
## GREAT AMERICAN




**3 and 4 Blades, 7-in. Wheels**

Crucible Tool Steel Blades, Plain Bearings

| Width Cut | Blades | Weight | Each |
|---|---|---|---|
| 12 in. | 3 | 40 lbs | $15 00 |
| 14 in. | 4 | 48 lbs | 17 00 |
| 16 in. | 4 | 51 lbs | 19 00 |
| 18 in. | 4 | 54 lbs | 21 00 |




**5 Blades, 10-in. Wheels, Ball Bearing**

Patent Self Sharpening Dead Knife, Crucible Steel Blades.

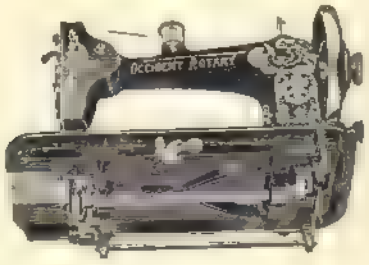
| Width Cut | Weight | Each |
|---|---|---|
| 15 in. | 65 lbs | $25 00 |
| 17 in. | 67 lbs | 28 00 |
| 19 in. | 70 lbs | 31 00 |
| 21 in. | 76 lbs | 34 00 |

SEATTLE HARDWARE COMPANY

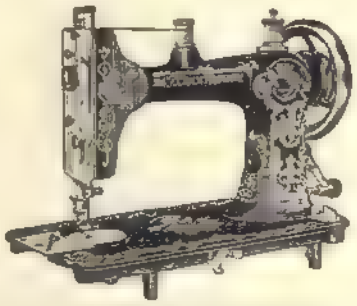
# SEWING OCCIDENT MACHINES

The Occident is built of the very best material throughout Neither time nor money has been spared to bring it to the acme of perfection It is the full equal of any machine made, and a thorough trial will demonstrate this fact For easy running, noiselessness, simplicity and labor saving convenience, the Occident stands in a class of its own It is the only machine equipped with an automatic self-regulating tension.

## OCCIDENT ROTARY



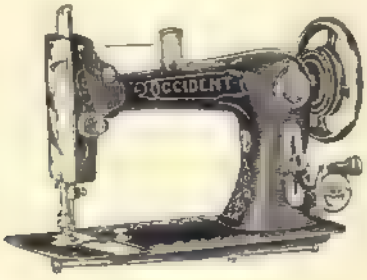

Under View Occident Rotary Sewing Head



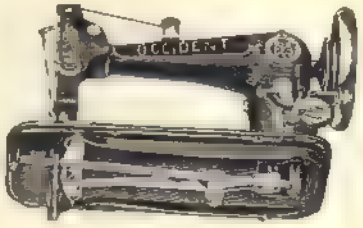
Upper View Occident Rotary Sewing Head

The Occident Rotary has a high-arm, lock stitch sewing head, beautifully finished in smooth black baked enamel, and is ornamented with imported decalcomania decorations. It has the rotary movement The rotary shuttle operates on the end of a shaft which connects with the hand wheel and rotates in one direction When the mechanism is once set in operation the speed becomes greater and runs one third faster than the vibrating style, with the least resistance, as there is no transfer in direction of levers necessary to carry the shuttle past the opening through which the needle passes to engage the lower thread. It is the only machine of its type equipped with automatic tension, which adjusts itself to all classes of goods It has automatic gear releasing device, automatic stitch regulator, two spool pins, double width roller-bearing feed, steel capped needle and presser bar, improved winder and automatic cutoff, and in every respect is the equal of any machine in the market A complete set of attachments, packed in brass-trimmed, velvet lined oak box

## OCCIDENT VIBRATOR




Upper View Occident Vibrator Sewing Head.




Under View Occident Vibrator Sewing Head

The Occident Vibrator has high arm, lock-stitch sewing head, finished in black baked enamel Has automatic bobbin winder, automatic gear releasing device, improved stitch regulator disc tension, automatic tension release, self-threading vibrating shuttle, steel capped needle and presser bar and positive double width feed Most lock stich sewing machines are known as "vibrating shuttle machines," which indicates that the lever that carries the shuttle vibrates back and forth beneath the opening through which the needle passes The Occident Vibrator is the highest-developed vibrator type. A complete set of attachments, packed in a velvet-lined oak box.

*NOTE All Occident Sewing Machines are absolutely guaranteed for ten years against defective material or workmanship.*

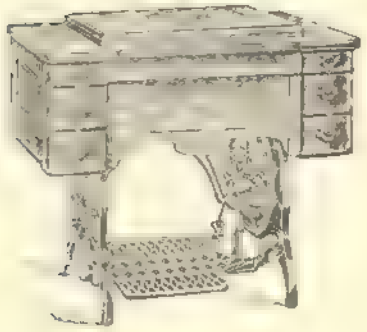
*Customers are required to pay transportation charges both ways when machines are returned for adjustment.*

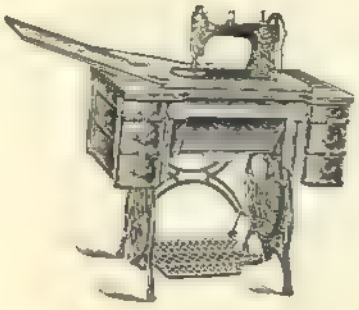
AVERAGE SHIPPING WEIGHT, 130 LBS

SEATTLE HARDWARE COMPANY

# SEWING MACHINES

## OCCIDENT



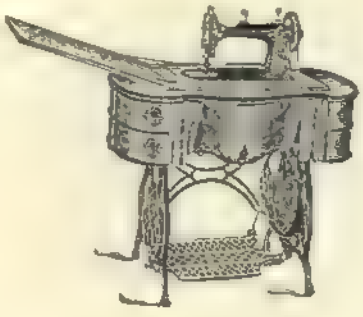


**No. 300—Occident Rotary**

Mission design, weathered oak finish; has hand polished finish quarter sawed oak case, has six side drawers, with polished brass handles, ornamental center panel, and automatic lifting device; 18 in. transfer tape measure on table. The stand is latest pattern, pattern cast iron, black enamel finish, point-bearing treadle, fly wheel is equipped with easy-running ball bearings and guard, which prevents belt from coming off; stand is well braced, giving rigidity and eliminating vibration, hence a smooth and even-running machine.

**No. 300**—Occident Rotary, Weathered Oak Finish.....Each, $55 00

*For Guarantee and description of sewing machine head, see page 1271.*



**No. 44 R—Occident Rotary**

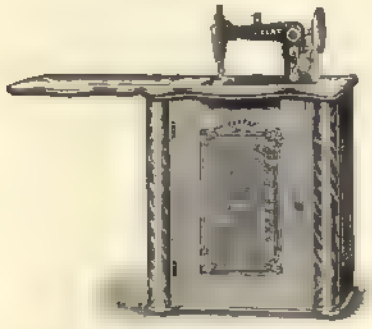
Crescent design, has hand polished quarter sawed oak case. Equipped with four side drawers, with embossed handles, convenient center drawer; automatic lifting device, beautiful golden oak finish, has 18 in. transfer tape measure on table. The stand is latest pattern cast iron, black enamel finish; point bearing treadle; fly wheel has easy running ball bearings and belt returning guard. The stand is well braced, insuring rigidity, eliminating vibration; hence a smooth and even-running machine.

**No. 44R** Occidental Rotary, Golden Oak Finish . . . . . Each, $55 00

*For Guarantee and description of sewing machine head, see page 1271.*

# SEWING MACHINES

## OCCIDENT



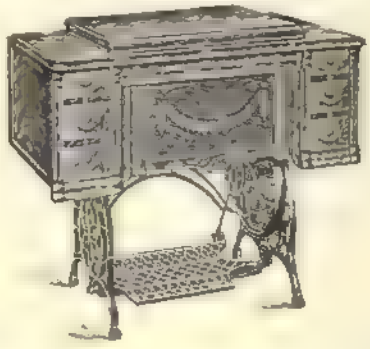
**No. BC—Occident Vibrator**

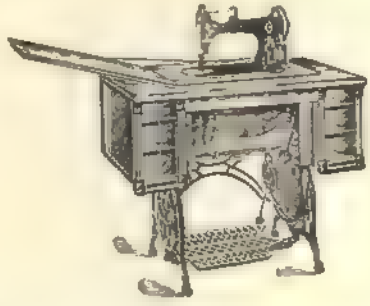
Cabinet design. A handsome and elegant design, finished in golden oak; one large drawer inside of cabinet to hold attachments, automatic lifting device. The treadle is point bearing and is constructed to take up all wear. The fly wheel is equipped with easy running ball bearings. A neat and attractive piece of furniture.

**No. BC**—Occident Vibrator, Golden Oak Finish..... $53 00

*For Guarantee and description of sewing head, see page 1271.*

SEATTLE HARDWARE COMPANY





**No. 500—Occident Vibrator**

Handsome mission design of quarter sawed oak. Has six paneled side drawers, ornamental center panel, automatic lifting device, 18-in. transfer tape measure on table. The stand is a flat ribbon pattern, cast iron, black enamel finish; point bearing treadle. Fly wheel has easy running ball bearings and belt-retaining guard. Stand is well braced, insuring rigidity and a smooth and even-running machine.

**No. 500**—Occident Vibrator, Golden Oak Finish..... $44 00

*For Guarantee and description of sewing head, see page 1271.*

**No. 44V—Occident Vibrator**

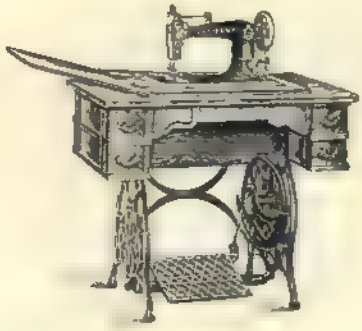
Crescent design. Made entirely from built up quarter sawed oak, and polished, has four crescent shaped side drawers, with embossed handles, ornamental center panel, automatic lifting device, 18-in. transfer tape-measure on table. The stand is a flat ribbon pattern, cast iron, black enamel finish. Point-bearing treadle. Fly wheel has easy-running ball bearings and belt retaining guard. The stand is well braced, insuring rigidity and a smooth and even-running machine.

**No. 44V**—Occident Vibrator, Golden Oak Finish..... Each, $40 00

*For Guarantee and description of sewing head, see page 1271.*

# SEWING MACHINES

## OCCIDENT



**No. 24—Occident Vibrator**

A neat mission design, and well constructed of built up quarter-sawed oak, polished Has four square end drawers, with embossed handles, ornamental center panel, 18-in transfer tape measure on table, automatic lifting device The stand is ribbon pattern, cast iron, black enamel finish Point bearing treadle. The fly wheel has easy-running ball bearings and belt retaining guard. Stand is well braced, insuring rigidity and a smooth and even running machine.

**No. 24**—Occident Vibrator, Golden Oak Finish ..... Each, $40 00

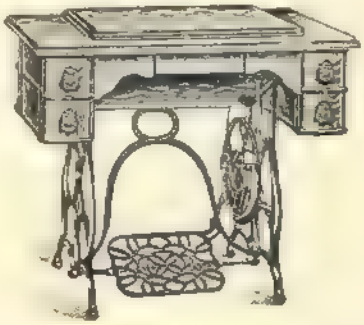
## ALOHA

**No. 14A—Aloha Vibrator**

Aloha Five Drawer. Finished in golden oak, highly polished; automatic lifting device, 18-in transfer tape-measure on table Carrying the same guarantee as the higher-priced machines, will stand hard usage and do excellent work Has full set of attachments in black enamel, velvet lined metal box. The stand is flat ribbon pattern, cast iron, black enamel finish of a plain design Point bearing treadle. The fly wheel has easy running ball bearings and belt-retaining guard. Stand is well braced and is strong and rigid

**No. 14A**—Aloha Vibrator, Golden Oak Finish ..... Each, $30 00

## RAINIER



**No. 14R—Rainier Vibrator**

The Rainier is well made from quarter sawed oak, hand polished, golden oak finish, has four side drawers and one center drawer, fitted with brass bar pulls; 18 in. transfer tape measure on table A very neat and durable low-priced machine Fully guaranteed for five years Set of attachments, packed in a black enamel, velvet-lined box The stand is of a substantial design, well braced, point bearing fly wheel and belt retaining guard The machine is strong and compact, and will give entire satisfaction to the purchaser.

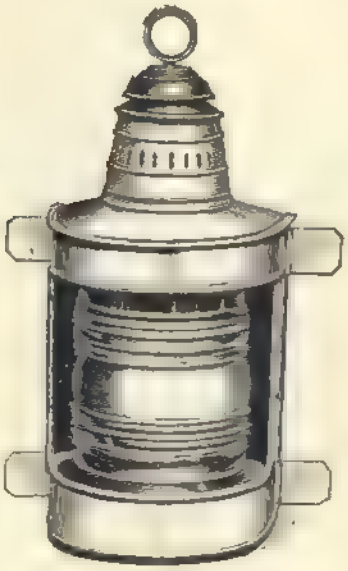
**No. 14R**—Rainier Vibrator, Golden Oak Finish ..... Each, $25 00

*For Guarantee and description of sewing head, see page 1271.*

# SHIP CHANDLERY

## SHIP LIGHTS

Side Light—Nos. 6 to 11



Bow Light—Nos. 12 to 16

Anchor Light—Nos. 21 to 23

### Side Lights

| No. | Size Glass Width | | Height | Height of Frame, Inch | Extreme Height, Inch | Width of Base, Inch | Weight Per Pair Net, Pounds | Galvanized Per Pair | Brass Per Pair |
|---|---|---|---|---|---|---|---|---|---|
| 6 | 4¾ | x | 4¼ | 6¼ | 11¼ | 6½ | 5 | $ 6 50 | $ 9 50 |
| 7 | 4¼ | x | 4¼ | 7¼ | 12 | 7 | 6 | 6 75 | 9 75 |
| 8 | 5¾ | x | 4¾ | 8 | 14½ | 9½ | 9 | 7 00 | 11 00 |
| 9 | 6½ | x | 5¾ | 9¾ | 16½ | 9½ | 11 | 9 00 | 16 00 |
| 10 | 6¾ | x | 6¾ | 10½ | 17½ | 11 | 14 | 10 50 | 18 00 |
| 11 | 10 | x | 7½ | 12 | 20 | 13¼ | 27 | 21 00 | 30 00 |

### Masthead or Bow Lights

| No. | Size, Glass Width | | Height | Height of Frame, Inch. | Extreme Height, Inch. | Width of Base, Inch | Weight Each, Pounds. | Galvanized Each. | Brass Each. |
|---|---|---|---|---|---|---|---|---|---|
| 12 | 4¾ | x | 4¼ | 6¼ | 11¼ | 6 | 2½ | $ 5 00 | $ 6 75 |
| 13 | 4¼ | x | 4¼ | 7¼ | 13 | 7 | 3½ | 5 25 | 9 00 |
| 14 | 6 | x | 6 | 9½ | 16 | 8 | 6 | 5 75 | 9 50 |
| 15 | 6¾ | x | 6¾ | 10 | 16½ | 8 | 6½ | 6 00 | 10 00 |
| 16 | 9 | x | 8 | 12 | 20 | 11 | 12½ | 12 00 | 16 00 |

### Anchor Lights

| No. | Diameter of Glass, Inch | Height of Glass, Inch | Height of Frame, Inch | Extreme Height, Inch | Dia. of Base, Inch | Weight, Each, Pounds | Galvanized Each | Brass Each |
|---|---|---|---|---|---|---|---|---|
| 21 | 4¾ | 4¼ | 9½ | 14 | 5½ | 4 | $ 5 00 | $ 6 50 |
| 22 | 6 | 6 | 12 | 17½ | 7 | 7 | 10 00 | 11 75 |
| 22½ | 6½ | 6½ | 12½ | 18½ | 7½ | 9½ | 10 50 | 12 50 |
| 23 | 8½ | 8 | 14 | 21 | 9½ | 13 | 15 00 | 18 00 |

### Extra Founts for Side Lights

| Nos. | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|
| Each | $1 00 | 1 00 | 1 00 | 1 50 | 1 50 | 1 50 |

### Extra Founts for Masthead Lights

| Nos. | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|
| Each | $1 00 | 1 00 | 1 00 | 1 50 | 1 50 |

### Extra Founts for Anchor Lights

| Nos. | 21 | 22 | 22½ | 23 |
|---|---|---|---|---|
| Each | $1 00 | 1 00 | 1 50 | 1 50 |

SEATTLE HARDWARE COMPANY

# SHIP CHANDLERY

## BABY FRESNAL SIGNAL LIGHTS

Green Side Light

Red Side Light

Bow Light

Anchor Light

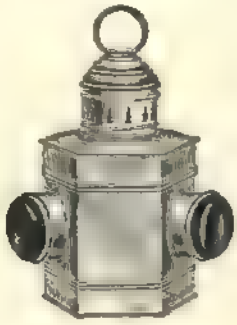
**For Small Motor Boats and Launches. Polished Brass and Galvanized Iron.**

| | Size Glass Inch | Extreme Height Inch | Width, Inch. | Galvanized, Each. | Brass, Each. |
|---|---|---|---|---|---|
| **Side Light, Green**—Weight each, 1¾ lbs | 3 | 7½ | 4 | $3 00 | $4 00 |
| **Side Light, Red** —Weight each, 1¾ lbs. | 3 | 7½ | 4 | 3 00 | 4 00 |
| **Bow Light** —Weight, each 1½ lbs. | 3 | 7½ | 4 | 3 00 | 4 00 |
| **Anchor Light**—Weight each, 1½ lbs | 3 | 7½ | 4 | 3 00 | 4 00 |

## COMBINATION LAUNCH LIGHTS

**For Class I Boat, up to 25 Feet**

**No. 2** -Galvanized, Round Fresnal Lenses, Bullseyes Red and Green. Diameter Lenses 3 in., Height of Lantern 9 in. Weight each, 1¾ lbs ..... $5 00



**Fresnal Glass**

| | |
|---|---|
| **No.** | **AA** |
| Height of Frame, in. | 6 |
| Extreme Height Without Handle, in | 8½ |
| Size of Glass, in | 3 x 4 |
| Weight each, lbs. | 2 |
| Galvanized ... Each, | $6 00 |
| Brass ... " | 8 00 |

**No. 10A**

| | |
|---|---|
| **No.** | **1** |
| Diameter of Glass, in. | 2¼ |
| Weight each, lbs. | 1½ |
| Galvanized ... Each, | $5 00 |
| Brass ... " | 6 50 |

*Fitted with Brass Founts.*

# SHIP CHANDLERY

## GLOBE LANTERNS

| Diameter of Globe, in | 6 | 8 | 10 |
|---|---|---|---|
| Height of Lantern, in | 15 | 17 | 21½ |
| Weight each, lbs | 3¾ | 4 | 8 |
| White Globe Galv'd. per Dozen, | $36 00 | 45 00 | 90 00 |
| Red Globe, Galv'd. " | 63 00 | 90 00 | |

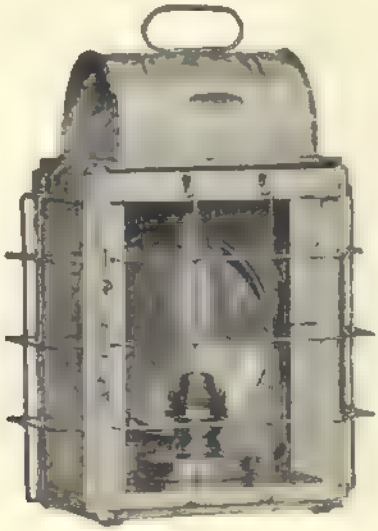
## FISH-TRAP LIGHT

Galvanized, with Brass Founts

Fount holds sufficient oil to burn eight days, with 8 in Fresnal globes.

| | | |
|---|---|---|
| No. 88W | White Globe | Each, $16 00 |
| No. 88R | Ruby Globe | " 19 00 |

## BULKHEAD LIGHTS



No. 180 Plain, Without Guards

| Size of Lanterns, in. | 7x11 | 9x13 |
|---|---|---|
| Weight each, lbs | 6 | 8 |
| Galvanized, Each, | $6 75 | 7 50 |
| Brass | 10 50 | 12 00 |

No. 18—Guarded

| Size of Lanterns, in | 7x11 | 9x13 |
|---|---|---|
| Weight each, lbs | 6½ | 7½ |
| Galvanized, Each, | $ 9 00 | 10 50 |
| Brass " | 12 75 | 15 00 |

## NAVY LANTERN

| No. | 8 |
|---|---|
| Diameter of Globe, in | 5 |
| Height of Globe, in | 6½ |
| Height of Lantern, in | 12 |
| Diameter of Base | 7½ |
| Per Dozen | $25 67 |
| Extra—Globes Per Dozen, | 5 00 |

SEATTLE HARDWARE COMPANY

# SHIP CHANDLERY

## SHIP LAMPS

No. 1—Hand

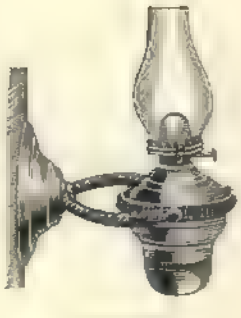
No. 2—Boiler Tube

No. 3—Bunker

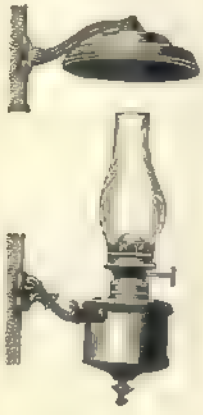
**No. 1—Hand,** Galvanized Iron, Capacity, 1 Pint, No 1 Lard Oil Burner. Weight Dozen, 10 lbs Per Dozen, $3 00
**No. 2 Boiler Tube,** Capacity 1 Pint, for Lard Oil, Galvanized Iron, Size 4x3x1 in Wt Dozen, 5 lbs.. " 3 75
**No. 3—Bunker,** Galvanized Iron, Capacity, 1 Pint, No. 1 Lard Oil Burner Weight Dozen, 10 lbs " 3 00

## CABIN AND STATEROOM LAMPS

No. 7—Cabin



No. 8—Cabin

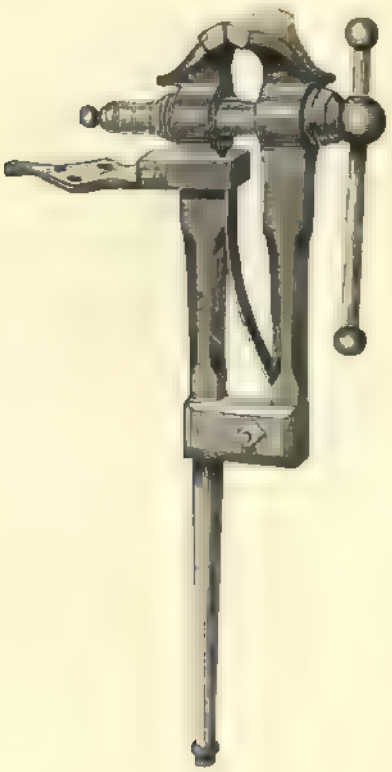


No. 10—Stateroom

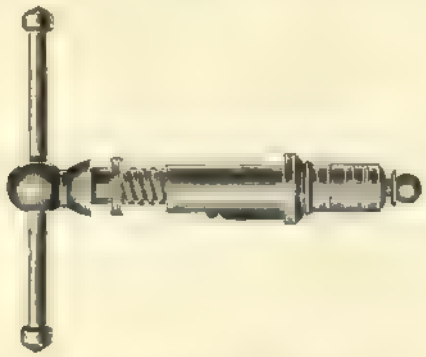
No. 12—Cabin

**No. 7—Cabin,** Brass, Swivel Bracket No 1 Sun Hinge Burner and Chimney, $^5/_8$-in Wick Weight per Dozen, 25 lbs ..... Per Dozen, $24 00
**No. 8—Cabin,** Brass, Bracket or Table, No 1 Sun Hinge Burner and Chimney, $^5/_8$ in. Wick. Weight per Dozen, 40 lbs ..... Per Dozen, 30 00
**No. 10 Stateroom,** Glass Fount, Oxidized Brass Fount Holder, Smoke Bell, No. 0 Sun Hinge Burner and Chimney, $^3/_8$ in Wick, Projection 5 in Weight per Dozen, 15 lbs . Per Dozen, 36 00
**No. 12 Cabin, Glass Fount,** Oxidized Brass Fount Holder, Smoke Bell, No 2 Dual Burner and Chimney, Two 1 in. Wicks, 10-in. Shade, Extreme Projection $10^1/_2$ in Weight per Dozen, 30 lbs . Per Dozen 72 00

# SOLID BOX VISES



| No. | Weight Each Pounds | Length of Jaw Inches | Each |
|---|---|---|---|
| 30 | 30 | 3 | $11 00 |
| 35 | 35 | 3⅜ | 10 00 |
| 40 | 40 | 3¾ | 10 50 |
| 50 | 50 | 4¼ | 11 50 |
| 60 | 60 | 4¾ | 13 00 |
| 70 | 70 | 5¼ | 15 00 |
| 80 | 80 | 5¾ | 17 50 |
| 90 | 90 | 6¼ | 20 00 |
| 100 | 100 | 6¾ | 22 00 |
| 125 | 125 | 6½ | 27 50 |
| 150 | 150 | 7 | 56 00 |

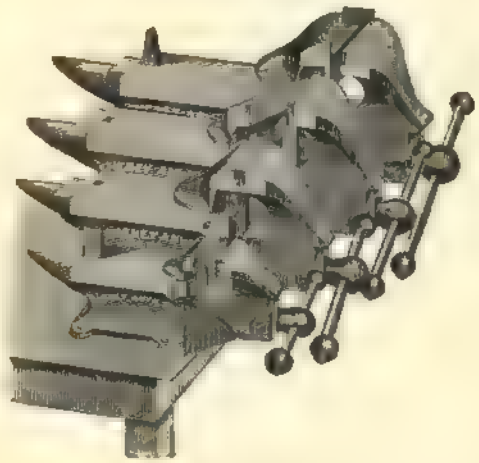


**Vise Boxes and Screws**

For Solid Box Vises.

| No. | For Vise No. | Diam. of Screw Inches | Diam. of Box Inches | Each |
|---|---|---|---|---|
| 1 | 25 to 30 | 1 | 1⅜ | $6 00 |
| 1½ | 35 to 45 | 1¼ | 1½ | 7 50 |
| 2 | 50 to 60 | 1¼ | 1⅜ | 8 00 |
| 3 | 65 to 75 | 1⅜ | 2 | 9 00 |
| 4 | 80 to 95 | 1½ | 2¼ | 11 00 |
| 5 | 100 to 130 | 1⅝ | 1⅝ | 12 00 |
| 6 | 135 to 190 | 1¾ | 2½ | 15 00 |

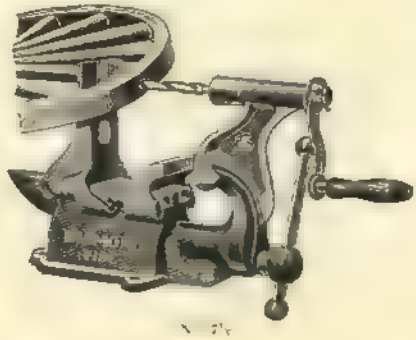
# COMBINATION ANVIL AND VISE



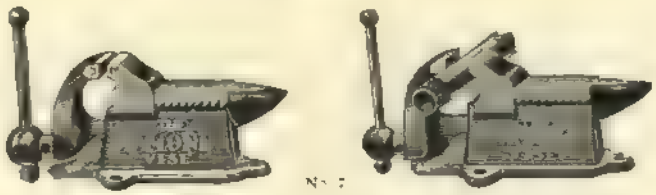
**Cheney's**

Combination Anvil and Vise, Adjustable Jaw.

| No. | 10 | 20 | 30 | 40 |
|---|---|---|---|---|
| Anvil Face, in. | 4½x2 | 6½x3 | 8x3¼ | 8½x4 |
| Width Jaw, in. | 2½ | 3½ | 4 | 3½ |
| Opens in. | 3 | 4 | 5 | 6 |
| Weight, lbs. | 9 | 25 | 85 | 50 |
| Each. | $4 50 | 5 75 | 7 00 | 8 50 |



No. 7½



No. 7

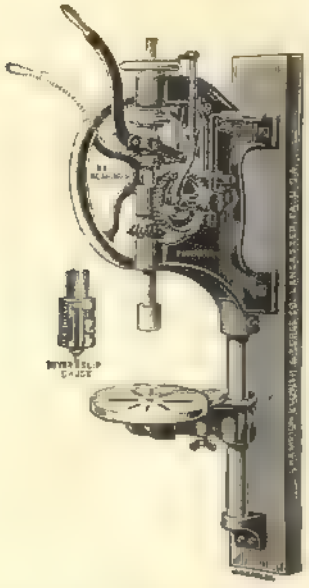
**Diamond**

Four-in. Jaws extend 12 in., Anvil Face 3 x 7 in.

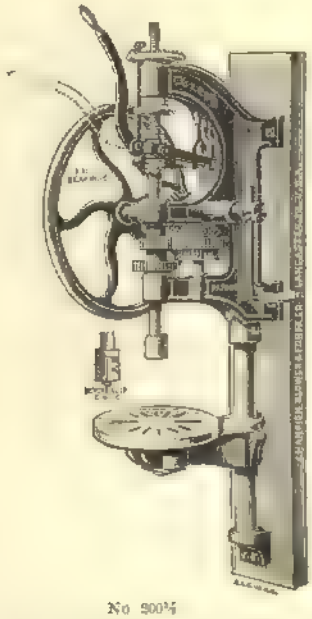
| No. | Each |
|---|---|
| 7 —Without Drilling Attachment, Weight 44 lbs. | $7 75 |
| 7½—With Drilling Attachment, Weight 60 lbs .... | 12 00 |

# UPRIGHT DRILLS

**Self-Feeding**



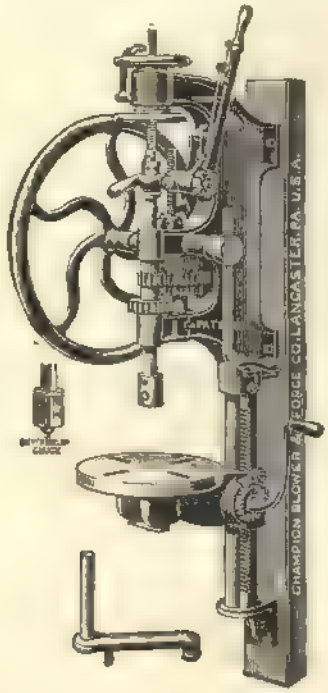
No. 200



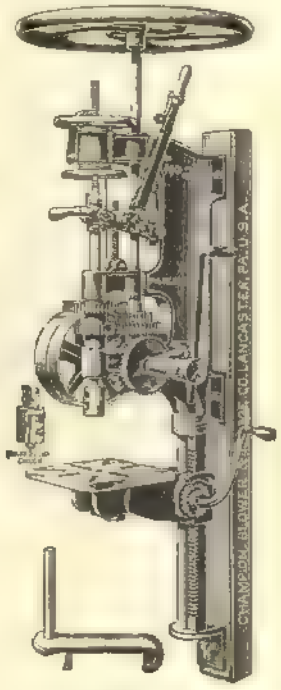
No. 200½

**No. 200**—Combination Automatic Self Feed and Lever Feed, Ball Bearings, Up and Down Run of 4 in., Double Speed, $1^1_4$ in. Spindle, Bored for $^1_2$ in. Straight-Shank Drills 1-64 to $1^1_4$ in., Drills to Center of 16 in. Circle; Net Weight Each, 160 lbs. ..... Each, $39 00

**No. 200½**—Combination Automatic Self Feed and Lever Feed, Double Back Geared, Ball Bearing, Double Speed, Up and Down Run 4 in., $1^1_4$ in. Spindle, Bored for $^1_2$-in. Straight Shank Drills 1-64 to $1^1_2$ in., Drills to Center of an 18 in. Circle; Net Weight Each, 225 lbs. ..... Each, 45 00




No. 201




No. 203

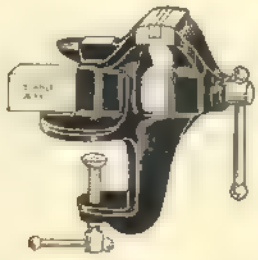
**No. 201**—Combination Automatic Self-Feed and Lever-Feed, Double Speed, Double Back Cut Geared, Ball Bearing, Up and Down Run $5^1_2$ in., $1^1_4$ in. Spindle, Bored for $^1_2$-in. Straight Shank Drills 1-64 to $1^1_2$ in., Drills to center of a 21 in. Circle. Net Weight Each, 325 lbs. ..... Each, $60 00

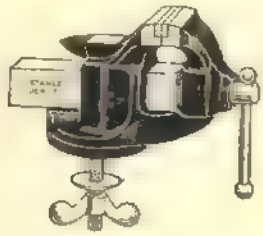
**No. 203**—Combination Automatic Self Feed and Lever Feed, Double Back Cut Geared, Ball Bearing, Up and Down Run $5^1_2$ in., $1^1_4$ in. Spindle, Bored for 41-64 in. Straight-Shank Drills 1-64 to $1^1_2$ in., Drills to Center of a 21-in. Circle, with Tight and Loose Pulleys for Power and Hand Combined; Net Weight Each, 340 lbs. ..... Each, 81 00

SEATTLE HARDWARE COMPANY

# BENCH VISES

No. 653

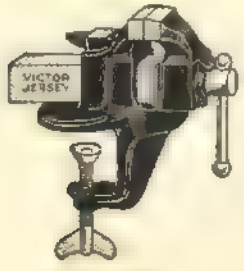


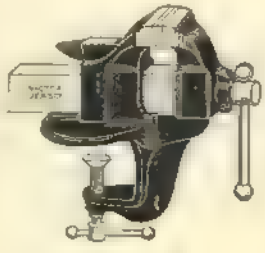


### Stanley "Jersey" Vises

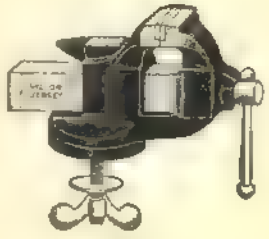
| No. | Hardened Tool Steel Jaws, Japanned Finish. | Each |
|---|---|---|
| **653**— | 2-in. Jaws, Stationary Base, Weight 4 lbs. . . . . | $1 50 |
| **663**— | 2-in. Jaws, Clamp Base, Weight 4½ lbs . . . . . | 1 75 |
| **673**— | 2-in. Jaws, Swivel Base, Weight 4½ lbs. . . . . | 2 00 |

EACH IN A BOX





Nos. 761 to 766



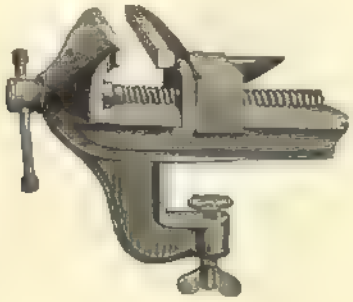
No. 776

### Victor "Jersey" Vises

| Clamp Base, Plain Iron Jaws, Japanned | | | | Clamp Base, Hardened Tool Steel Jaws, Japanned. | | | |
|---|---|---|---|---|---|---|---|
| No. | Size Jaws | Weight | Each | No. | Size Jaws | Weight | Each |
| **741** | 1½ in | 3 lbs | $ 70 | **761** | 1½ in. | 3 lbs | $ 95 |
| **743** | 2 in | 3½ lbs | 1 00 | **763** | 2 in | 3½ lbs | 1 30 |
| **745** | 2½ in | 5 lbs | 1 50 | **765** | 2½ in | 5 lbs | 1 85 |
| **746** | 3 in. | 6¾ lbs | 2 00 | **766** | 3 in | 8¾ lbs | 2 50 |

| No. | Swivel Base, Hardened Tool Steel Jaws, Japanned | Each |
|---|---|---|
| **776**— | 3-in. Jaws, Weight 9½ lbs . . . . . | $2 85 |

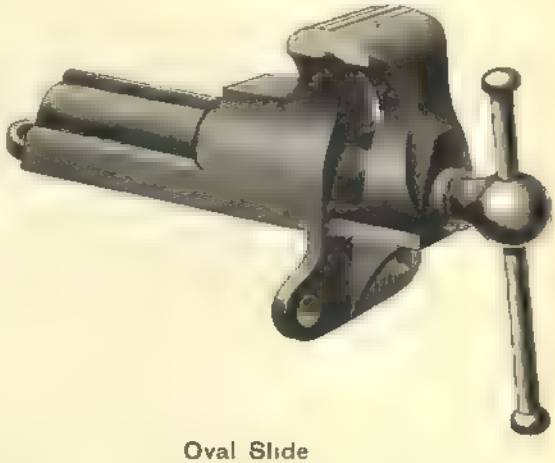
EACH IN A PACKAGE



### Bonney

Iron Jaws, with Clamp.

| No. | Size Jaws | Weight per | Per Doz. |
|---|---|---|---|
| **1** — | 1½ in | 18 lbs. | $3 75 |
| **1½** — | 1¼ in | 22 lbs. | 5 00 |
| **2** | 2 in. | 29 lbs. | 6 50 |



### Oval Slide

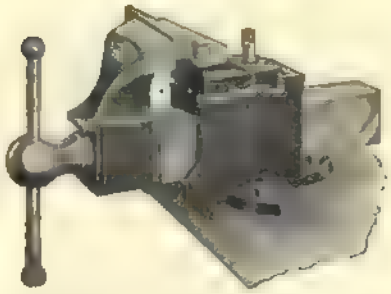
Steel Faced Jaws, Japanned.

| No. | Width Jaws | Weight Each | Each |
|---|---|---|---|
| **00**— | 2½ in. | 11½ lbs. | $3 80 |
| **01**— | 3 in. | 18 lbs. | 5 40 |
| **02** — | 3½ in. | 25½ lbs. | 6 75 |
| **03**— | 4 in. | 38½ lbs. | 9 00 |

SEATTLE HARDWARE COMPANY

# BENCH VISES

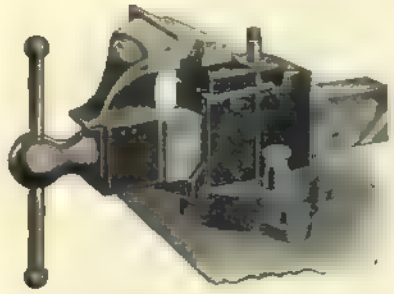
## PRENTISS



Machinist's, Stationary Bottom

Self-Adjusting Solid Steel Faced Jaws.

| No. | Width Jaw | Opens | Weight | Each |
|---|---|---|---|---|
| 1 | 2⅜ in. | 3½ in. | 13 lbs. | $7 50 |
| 2 | 3½ in. | 4¾ in. | 28 lbs. | 10 50 |
| 2½ | 4 in. | 5¼ in. | 41 lbs. | 13 50 |
| 3 | 4½ in. | 6 in. | 54 lbs. | 16 00 |
| 4 | 5¼ in. | 8 in. | 96 lbs. | 25 50 |
| 5 | 6 in. | 9 in. | 146 lbs. | 36 00 |
| 6 | 7 in. | 11 in. | 184 lbs. | 45 00 |

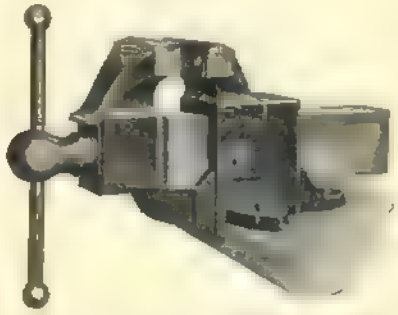


Machinist's, Swivel Bottom

Self-Adjusting Solid Steel Faced Jaws.

| No. | Width Jaw | Opens | Weight | Each |
|---|---|---|---|---|
| 18 | 2⅜ in. | 3½ in. | 17 lbs. | $11 00 |
| 19 | 3½ in. | 4¾ in. | 32 lbs. | 14 00 |
| 19½ | 4 in. | 5¼ in. | 46 lbs. | 15 75 |
| 20 | 4½ in. | 6 in. | 65 lbs. | 18 75 |
| 21 | 5¼ in. | 8 in. | 109 lbs. | 30 00 |
| 22 | 6 in. | 9 in. | 168 lbs. | 42 50 |
| 23 | 7 in. | 11 in. | 207 lbs. | 55 00 |

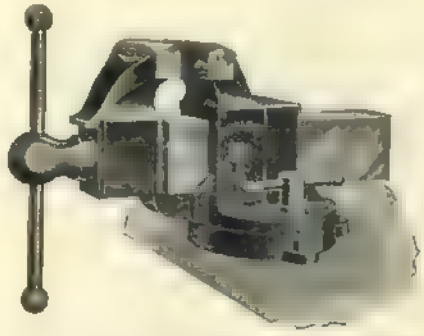
## MONARCH



Monarch Machinist's, Stationary Bottom

Parallel Jaws, Solid Steel Faced.

| No. | Width Jaws | Opens | Weight | Each |
|---|---|---|---|---|
| 213 | 3½ in. | 4 in. | 22 lbs. | $6 00 |
| 215 | 4 in. | 5½ in. | 28 lbs. | 7 00 |
| 217 | 4½ in. | 6 in. | 42 lbs. | 8 50 |
| 219 | 5 in. | 7 in. | 52 lbs. | 10 00 |
| 221 | 5½ in. | 8 in. | 72 lbs. | 13 00 |

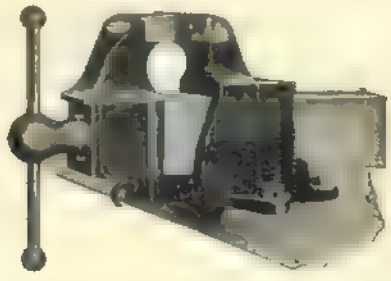


Monarch Machinist's, Swivel Bottom

Parallel Jaws, Solid Steel Faced.

| No. | Width Jaws | Opens | Weight | Each |
|---|---|---|---|---|
| 214 | 3½ in. | 4 in. | 28 lbs. | $7 50 |
| 216 | 4 in. | 5½ in. | 36 lbs. | 8 75 |
| 218 | 4½ in. | 6 in. | 52 lbs. | 10 50 |
| 220 | 5 in. | 7 in. | 64 lbs. | 12 50 |
| 222 | 5½ in. | 8 in. | 85 lbs. | 16 00 |

## RAPID TRANSIT

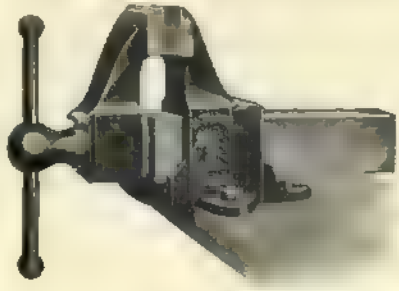


Stationary Bottom, Parallel Jaws

Can be operated as a Parallel Screw Vise entirely independent of the rapid-transit movement if so desired. The only quick action Vise with full Nut.

| No. | Each |
|---|---|
| 71—Jaws 3¾ in. wide, Opens 4½ in., Wt. 38 lbs. | $11 00 |

## MONARCH WOOD-WORKER'S



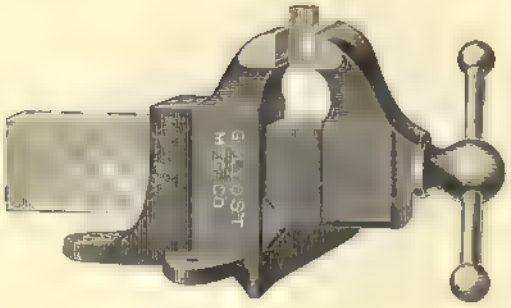
Coach-Maker's Smooth-Face Jaws, Stationary Bottom

Parallel Vise

| No. | Each |
|---|---|
| 229—Width Jaw, 1½ in., Opens 9 in., Wt. 48 lbs. | $9 50 |

# BENCH VISES

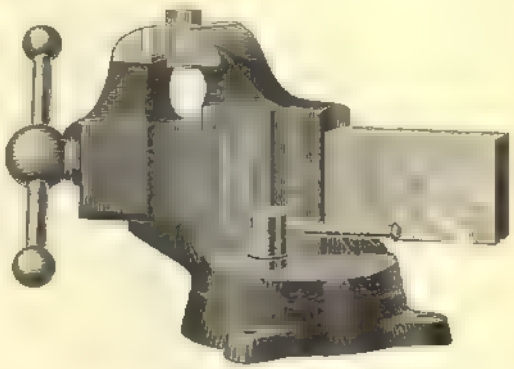
## YOST MACHINISTS'



Stationary Bottom

Parallel Jaws, Solid Steel Faced.

| No. | Width Jaw | Opens | Weight | Each |
|---|---|---|---|---|
| 103½— | 3½ in. | 5 in. | 31 lbs. | $7 00 |
| 104 — | 4 in. | 6 in. | 44 lbs. | 8 50 |
| 104½— | 4½ in. | 6½ in. | 55 lbs. | 10 00 |
| 105 — | 5 in. | 7½ in. | 72 lbs. | 13 00 |
| 105½ — | 5½ in. | 9 in. | 102 lbs. | 18 50 |



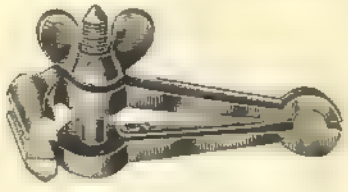
Swivel Bottom

Parallel Jaws, Solid Steel Faced

| No. | Width Jaw | Opens | Weight | Each |
|---|---|---|---|---|
| 203½— | 3½ in. | 5 in. | 38 lbs. | $8 75 |
| 204 — | 4 in. | 6 in. | 52 lbs. | 10 50 |
| 204½— | 4½ in. | 6½ in. | 63 lbs. | 12 50 |
| 205 — | 5 in. | 7½ in. | 84 lbs. | 16 00 |

*A first quality Machinists' Vise, weighing heavier in proportion to corresponding sizes of other vises. Guaranteed against defects of material and workmanship.*

# HAND AND PIN VISES



Hand, Plain

Solid Cast Steel, Steel Pin, Winged Nut.

| No. | Length | Weight Doz. | Per Doz. |
|---|---|---|---|
| 11— | 4½ in. | 15 lbs. | $12 00 |
| 12— | 5 in. | 17 lbs. | 15 00 |

Hand, With Loop

Solid Cast Steel, Steel Pin, Winged Nut.

| No. | Length | Weight Doz. | Per Doz. |
|---|---|---|---|
| 13— | 5½ in. | 19 lbs. | $24 00 |

ONE-HALF DOZ IN A BOX

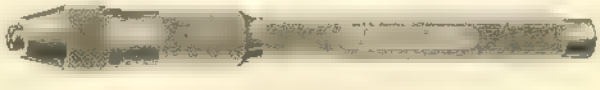
## HAND VISES

Alford's Hand

| No. | | Per Doz. |
|---|---|---|
| 1 | —1¼ in. Forged Jaws, opening 1⅛ in., Hollow Rosewood Handle, Lignum vitæ Cap containing Tools | $36 00 |

ONE-HALF DOZEN IN A BOX WEIGHT DOZEN 13 LBS

## STARRETT'S PIN



Nos. 162A to 162D

| | | |
|---|---|---|
| No. 162A—Capacity, .0 to .040 in | Each, | $0 55 |
| No. 162B—Capacity, .030 to .062 " | " | 55 |
| No. 162C—Capacity, .050 to .125 " | " | 55 |
| No. 162D—Capacity, .115 to .187 " | " | 75 |

ONE IN A BOX

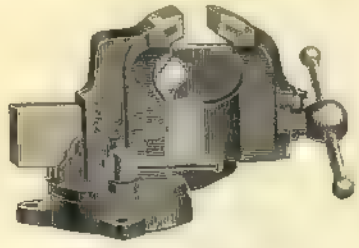
# PIPE VISES

## PARKER COMBINATION

Stationary Bottom

The Steel Faces are Milled and Fitted to the Jaws and are renewable.

| No. | Width Jaw | Vise Opens | Holds Pipe | Weight | Each |
|---|---|---|---|---|---|
| 88½ | 4⅜ in. | 8½ in. | ⅛ to 4 in. | 94 lbs. | $28 00 |
| 89½ | 5⅜ in. | 9½ in. | ⅛ to 6 in. | 141 lbs. | 35 00 |

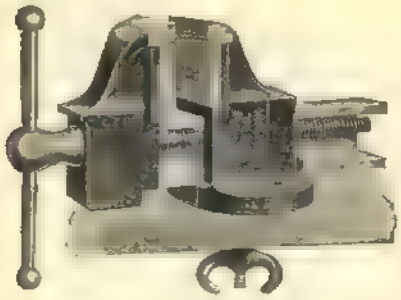


Swivel Bottom

The Steel Faces are Milled and Fitted to the Jaws and are renewable.

| No. | Width Jaws | Vise Opens | Holds Pipe | Weight | Each |
|---|---|---|---|---|---|
| 87— | 3⅝ in. | 4⅜ in. | ⅛ to 2 in. | 41 lbs | $16 00 |
| 88— | 4⅛ in. | 6 in. | ⅛ to 3 in. | 59 lbs | 20 00 |

## IMPROVED COMBINATION



With Wrought Steel (Channel) Sliding Bar, Heavy Reversible Steel Plate Pipe Jaws. Pipe may be held at various angles.

| No. | | Each |
|---|---|---|
| 82 | —Jaws 4¼ in., Holds Pipe ⅛ to 4 in., Weight 55 lbs | $20 00 |

## VULCAN CHAIN

Patent Drop-Forged Chain Pipe Vise

For Holding Pipe, Bolts, Bars, Shafts, etc.

| No. | Holds Pipe | Weight | Each |
|---|---|---|---|
| 1V | —⅛ to 2 in. | 4 lbs. | $3 50 |
| 2V | —¼ to 4 in. | 10 lbs. | 6 50 |

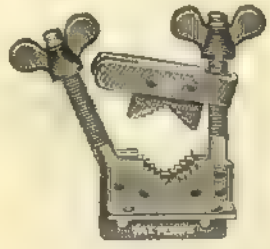
## PRENTISS

Hinge Type

Malleable Iron Frame, Steel Jaws.

| No. | Holds Pipe | Wt. Lbs. | Each |
|---|---|---|---|
| 111 | —⅛ to 2½ in. | 8½ | $2 50 |
| 112 | —⅛ to 3½ in. | 20 | 3 50 |
| 113 | —⅛ to 4½ in. | 18 | 5 00 |

## NYE POCKET



Nye Pocket Vise

High-Grade Tool Steel Jaws, Angle-Iron Frame. Can be carried in coat pocket.

| No. | | Each |
|---|---|---|
| 1 | —Holds Pipe ⅛ to 1¼ in., Weight 2½ lbs. | $2 50 |

SEATTLE HARDWARE COMPANY

# PIPE WRENCHES

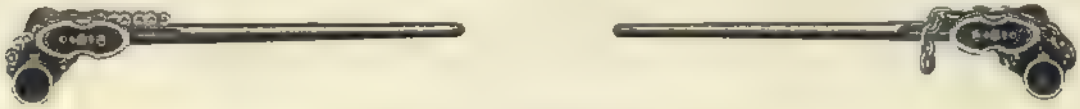
## TRIMO

Forged Steel. Parts Interchangeable

| Length Open, in. | | 6 | 8 | 10 | 14 | 18 | 24 | 36 |
|---|---|---|---|---|---|---|---|---|
| Takes From | | ⅛ in. Wire to ½ in. Pipe. | ⅛ in. Wire to ¾ in. Pipe. | ⅛ in. Wire to 1 in. Pipe | ¼ in. Wire to 1½ in. Pipe | ¼ in. Wire to 2 in. Pipe. | ¼ in. Wire to 2½ in. Pipe | ⅜ in. Pipe to 3½ in. Pipe |
| Weight Each, lbs | | ⅝ | 1 | 1¼ | 4 | 6½ | 10 | 22 |
| Each | | $2 00 | $2 00 | $2 25 | $3 00 | $4 00 | $6 00 | $12 00 |
| Extra—Jaws | Each, | 67 | 67 | 75 | 1 00 | 1 33 | 2 00 | 4 00 |
| Extra—Nuts | " | 20 | 20 | 27 | 35 | 42 | 50 | 65 |
| Extra—Inserted Jaws | " | 25 | 25 | 33 | 50 | 55 | 65 | 1 00 |
| Extra—Frames | " | 25 | 25 | 33 | 45 | 55 | 65 | 75 |

6 TO 24 INCH, ONE-HALF DOZEN IN A WOODEN BOX. 36 INCH, PACKED AS WANTED.

## VULCAN BI-JAW



With Double-Ended Reversible Jaws

| Nos. | 31 | 32 | 33 | 33½ | 34 |
|---|---|---|---|---|---|
| For Pipe, in. | ⅛ to 1½ | ¼ to 2½ | ¾ to 4 | 1 to 6 | 1½ to 8 |
| Length, in. | 20 | 27 | 37 | 44½ | 50½ |
| Weight Each, lbs. | 5¾ | 10 | 16 | 24 | 31 |
| With Flat Link Chain. Each, | $3 50 | 5 00 | 7 00 | 9 00 | 11 00 |
| With Cable Chain. " | 3 50 | 5 00 | 7 00 | 9 00 | 11 00 |
| Extra—Flat Link or Cable Chains. " | 1 00 | 1 50 | 2 50 | 3 25 | 4 00 |
| Extra—Jaws. Per Pair, | 1 75 | 2 75 | 4 00 | 4 75 | 5 50 |
| Extra—Nuts and Studs. Per Set, | 25 | 35 | 45 | 55 | 70 |

*Flat Link Chain will be sent unless otherwise ordered.*

## AGRIPPA

Drop-Forged Flat-Link Chain Pipe-Fitting Wrench

| Nos. | 20 | 21 | 22 | 23 | 23½ | 24 | 25 |
|---|---|---|---|---|---|---|---|
| For Pipe, in. | ⅛ to ¾ | ⅛ to 1½ | ¼ to 2½ | ¾ to 4 | 1 to 6 | 1½ to 8 | 2 to 12 |
| Length, in. | 13¾ | 20 | 27 | 37 | 44½ | 50½ | 64½ |
| Weight Each, lbs. | 2½ | 5¾ | 9¾ | 17 | 24 | 32 | 56 |
| Price, Each | $2 50 | 3 50 | 5 00 | 7 00 | 9 00 | 11 00 | 18 00 |
| Extra—Chain Each | 1 00 | 1 25 | 1 75 | 2 75 | 3 75 | 4 50 | 6 75 |
| Extra—Jaws Each | 1 00 | 1 75 | 2 75 | 4 00 | 4 75 | 5 50 | 7 50 |

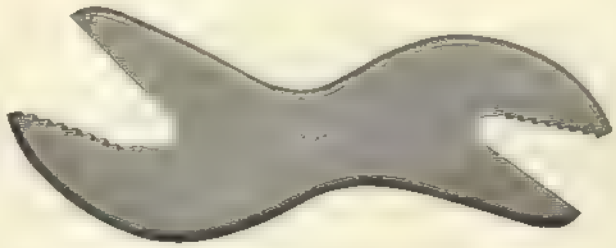
# WRENCHES

## CRESCENT

| Length, in | 6 | 8 | 10 | 12 | 15 |
|---|---|---|---|---|---|
| Weight Each, ounces | 5 | 10 | 18 | 32 | 64 |
| Per Dozen | $7 80 | 9 60 | 12 00 | 15 00 | 19 20 |
| Extra Jaws, per Dozen | 3 00 | 3 60 | 4 80 | 9 00 | 9 00 |
| Extra Thumb Screws, per Dozen | 1 20 | 1 44 | 1 80 | 2 40 | 3 60 |

PACKED ONE IN A BOX.

## ALWAYS READY



Nickel Plated, Prepared Forged Steel, Oil Tempered

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Length, in | 5 | 7 | 11½ |
| For Round or Square Iron, in | ¼ to ¾ | ½ to 1¼ | ¾ to 2 |
| Weight per Dozen, lbs | 6 | 13 | 30 |
| Per Dozen | $5 00 | 6 75 | 16 00 |

ONE-HALF DOZEN IN A BOX.

## GENUINE HAWKEYE

**No. 200**—Genuine Hawkeye, Open-Hearth, Drop-Forged, Carbon Steel, for Pipe 5/16 to 3/4 in., will Re-thread 5/16, 3/8 and 1/2-in. Bolts, Standard Thread. Weight per Dozen, 18 lbs. . . . . Per Dozen, $8 00

ONE HALF DOZEN IN A BOX.

## ALLIGATOR

No 1. No. 2 No 3

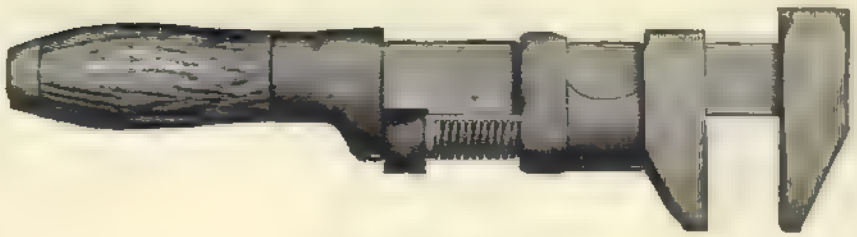
No. 1, Bright Finish; Nos. 2 and 3, Black or Natural Finish

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Length, in | 5¾ | 9 | 16 |
| For Pipe, in | ⅛ to ⅜ | ⅜ to ¾ | ½ to 1¼ |
| For Round Iron, in | ¼ to ¾ | ½ to 1 | ¾ to 1⅜ |
| Weight per Dozen, lbs | 3½ | 15 | 41 |
| Per Dozen | $4 00 | 12 00 | 24 00 |

NO. 1 ONE DOZEN IN A BOX. NOS. 2 AND 3, PACKED AS WANTED.

# WRENCHES

## STANDARD OR AGRICULTURAL

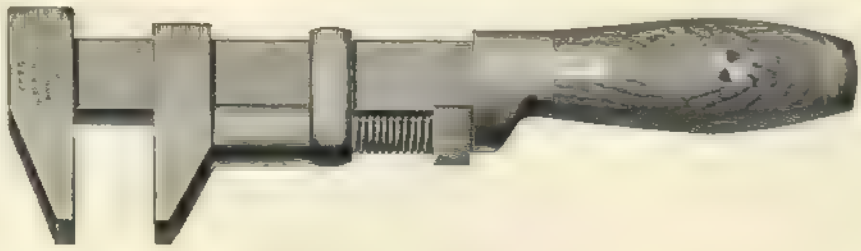


Wrought Bar, Black

| Length, in..... | 6 | 8 | 10 | 12 | 15 |
|---|---|---|---|---|---|
| Weight per Dozen, lbs | 9½ | 20 | 24 | 34 | 47 |
| Per Dozen. | $10 00 | 12 00 | 14 00 | 17 00 | 24 00 |

ONE-HALF DOZEN IN A PACKAGE

## COES KNIFE HANDLE



Wrought Bar and Jaws, Black

| Length, in | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|
| Weight per Dozen, lbs | 11 | 18 | 30 | 46 | 68 | 95 | 130 |
| Per Dozen. | $9 00 | 10 00 | 12 00 | 14 00 | 24 00 | 30 00 | 36 00 |

6 TO 12 IN., ONE HALF DOZEN 15 TO 21 IN. ONE THIRD DOZEN IN A PACKAGE

## P., S. & W. SOLID HANDLE

Solid Steel Forging, One Piece, Case Hardened

| Length, in | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|
| Weight per Dozen, lbs | 11 | 18 | 30 | 46 | 68 | 95 | 130 |
| Per Dozen | $9 00 | 10 00 | 12 00 | 14 00 | 24 00 | 30 00 | 36 00 |

6 TO 12 IN. ONE HALF DOZEN 15 TO 21 IN. ONE THIRD DOZEN IN A PACKAGE

## PERFECT HANDLE

Solid Forging, Inlaid Handle

| Length, in..... | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|
| Weight per Dozen, lbs | 12 | 19 | 32 | 47 | 70 | 98 | 134 |
| Per Dozen | $9 00 | 10 00 | 12 00 | 14 00 | 24 00 | 30 00 | 36 00 |

6 TO 12 IN. ONE-HALF DOZEN 15 TO 21 IN. ONE-THIRD DOZEN IN A PACKAGE

# WRENCHES

## POCKET

Billings & Spencer. Nickel Plated

**No. 97**—Length 4½ in. Weight per Dozen 5½ lbs. ..... Per Dozen, $7 00

Forged Steel, Nickel Plated, Hardened Jaws

**No. 13**—Length 4½ in. Weight per Dozen, 5 lbs. ..... Per Dozen, $7 50

ONE-HALF DOZEN IN A BOX

## AUTO

Billings & Spencer

**Model D**—Black Finish, 6 in. Weight per Dozen, 12 lbs. ..... Per Dozen, $10 00

**Model E**—Black Finish, 7 in. Weight per Dozen, 14 lbs. ..... " 12 00

PACKED ONE IN A BOX

## EAGLE CLAW WRENCH

90-Degree Wrenches

| Nos. | 10 | 40 | 60 |
|---|---|---|---|
| Length, inch | 7 | 10 | 13 |
| Weight Dozen, lbs. | 9 | 16 | 25 |
| Capacity, up to | 1 in. | 1½ in. | 2 in. |
| Per Dozen | $12 00 | 15 00 | 18 00 |

45-Degree Wrenches

| Nos. | 20 | 50 |
|---|---|---|
| Length, inch | 7 | 10 |
| Weight Dozen, lbs. | 9 | 16 |
| Capacity, up to | 1 in. | 1½ in. |
| Per Dozen | $12 00 | 15 00 |

*For Automobile Men, Garages, Mechanics, Machine Shops, Farmers. Designed and constructed for use in difficult places. Has tremendous leverage and grips like a vise. Never loses hold.*

## ELGIN

**Elgin**—Nickel Plated, Length 7 in., for Pipe ⅛ to 1 in., Weight per Dozen 9½ lbs. Per Dozen, $12 00

**Extra Jaws** ..... " 3 00

## WESTCOTT ADJUSTABLE "S"

For Nuts

| Length, In. | Opens, In. | Wt. Doz., lbs. | Per Dozen |
|---|---|---|---|
| 6— | ¾ | 8½ | $ 7 20 |
| 8— | 1 | 16 | 9 00 |
| 10— | 1⅜ | 36 | 12 00 |

ONE-HALF DOZEN IN A BOX.

SEATTLE HARDWARE COMPANY

# PIPE WRENCHES

## B. & C. COMBINATION

Wrought-Iron Bar, Case-Hardened Throughout, Bright, Long Nut, Parts Interchangeable

| | | |
|---|---|---|
| **Bemis & Call**—Length Open, in. | 12 | 15 |
| For Pipe, in. | ½ to 1¾ | ½ to 2¼ |
| Weight per Dozen, lbs. | 48 | 66 |
| Per Dozen | $28 50 | 40 50 |
| **Extra**—Jaws with Screw, Each | 50 | 63 |

ONE HALF DOZEN IN A WOODEN BOX

## COCHRAN PIPE

Positively Will Not Lock on the Pipe

| Size, in. | 6 | 8 | 10 | 14 | 18 | 24 | 36 |
|---|---|---|---|---|---|---|---|
| Weight Each, lbs | ¾ | 1¼ | 1½ | 2¾ | 4½ | 7½ | 19 |
| Each | $2 00 | 2 00 | 2 25 | 3 00 | 4 00 | 6 00 | 12 00 |

6 AND 8 IN ONE HALF DOZEN IN A BOX, ONE THIRD DOZEN IN A BOX

## STILLSON'S PIPE

Style of 6 to 10 in.

Style of 14 to 48 in.

| Length Open, in. | 6 | 8 | 10 | 14 | 18 | 24 | 36 | 48 |
|---|---|---|---|---|---|---|---|---|
| Takes From | ¾ in Wire to ¾ in Pipe. | ¾ in Wire to ¾ in Pipe | ¾ in Wire to 1 in Pipe | ¾ in Wire to 1¼ in Pipe | ¾ in Wire to 2 in Pipe | ¾ in Wire to 2½ in Pipe | ¾ in Pipe to 3½ in Pipe | 1 in Pipe to 5 in Pipe |
| Weight Each, lbs. | ½ | ¾ | 1¼ | 3 | 5 | 9 | 16 | 25 |
| Each | $2 00 | $2 00 | $2 25 | $3 00 | $4 00 | $6 00 | $12 00 | $18 00 |
| **Extra**—Jaws Each, | 75 | 75 | 80 | 1 00 | 1 33 | 2 10 | 4 75 | 7 25 |
| **Extra**—Frames " | 35 | 35 | 40 | 50 | 55 | 80 | 1 30 | 1 50 |
| **Extra**—Nuts " | 15 | 15 | 20 | 20 | 22 | 35 | 55 | 75 |
| Extra Wood Hdls. " | 16 | 16 | 18 | 25 | | | | |

6 TO 24-INCH ONE HALF DOZEN IN A WOODEN BOX, 36 AND 48 INCH PACKED AS WANTED

SEATTLE HARDWARE COMPANY

# BLACKSMITHS' COAL

Cumberland

| | Per 100 Lbs. |
|---|---|
| In Sacks | $1 25 |
| In Bulk | 1 00 |

**Charcoal**—In Sacks.....Per Sack, $0 75

# BORAX

| | Per Pound |
|---|---|
| **Refined Borax**—In Sacks | $0 15 |

# WELDING COMPOUNDS

E-Z

Will weld tool, plow, open-hearth, Bessemer or spring steel.

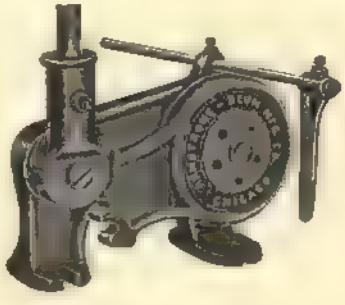
| | Per Pound |
|---|---|
| In 25-Pound Boxes | $0 10 |
| In 5-Pound Boxes | 12 |

Climax

For all grades of welding.

| | Per Pound |
|---|---|
| In Bulk | $0 25 |
| In 25-Pound Boxes | 28 |
| In 5-Pound Boxes | 30 |

# ROD CUTTER

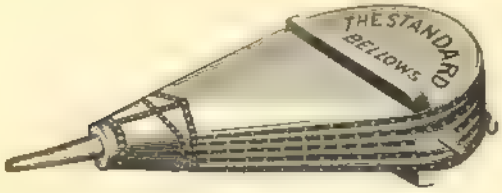


Marvel Rod Cutter

| No. | Each |
|---|---|
| 6—Cuts Rods ⅜ to ⅝ in., Weight 40 lbs | $16 50 |
| 7—Cuts Rods ⅜ to ⅞ in., Weight 100 lbs | 34 50 |

SEATTLE HARDWARE COMPANY

# BELLOWS



### Standard Blacksmiths' Bellows

Hardwood Outside Boards Cross Cleated, Best Quality Split Cowhide Sides.

| Length, in | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight Each, lbs | 32 | 34 | 38 | 40 | 45 | 50 | 55 | 60 | 70 | 95 | 100 | 105 | 110 |
| Each | $10 00 | 10 00 | 10 00 | 11 00 | 12 00 | 13 00 | 14 00 | 16 00 | 18 00 | 20 00 | 23 00 | 27 00 | 32 00 |

### Extra-Long Blacksmiths' Bellows

Hardwood Outside Boards Cross Cleated, Painted, Best Quality Split Cowhide Sides.

| Length, in. | 36 | 38 |
|---|---|---|
| Weight Each, lbs. | 105 | 120 |
| Each | $22 00 | 24 00 |

### Hand Bellows

Sheepskin Sides, Leather Bound.

| Length, in | 7 | 8 | 9 |
|---|---|---|---|
| Weight per Dozen, lbs | 18 | 20 | 21 |
| Per Dozen | $11 00 | 12 00 | 13 00 |

ONE DOZEN IN A PACKAGE

### Moulders' Bellows

Sheepskin Sides, Leather Bound.

| Length, in. | 10 | 12 |
|---|---|---|
| Weight per Dozen, lbs. | 26 | 30 |
| Per Dozen. | $18 00 | 24 00 |

ONE DOZEN IN A PACKAGE

# TUYERE IRONS

### Duck's Nest

| No. | | Each |
|---|---|---|
| 5 | —Weight Each, 15 lbs. | $1 25 |

### Clark's Patent

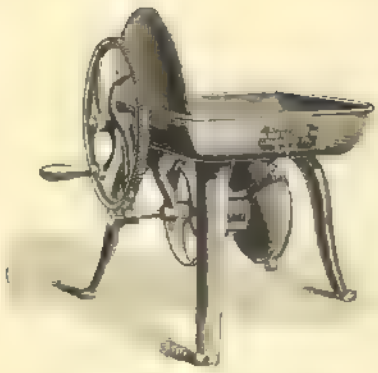
| No | | Each |
|---|---|---|
| 2 | —Weight Each, 21 lbs. | $3 00 |

| No. | | Each |
|---|---|---|
| 15 | —Japanned. Weight Each, 32 lbs. | $4 00 |

### Whirlwind Blast, Anti-Clinker

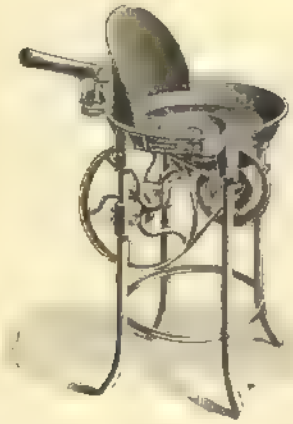
| No | | Each |
|---|---|---|
| 400 | —Regular Blacksmith's, 5 in. Deep, 8¾ in. Wide, 12⅜ x 14⅜ in. over all, Weight 60 lbs. | $10 00 |

# PORTABLE FORGES



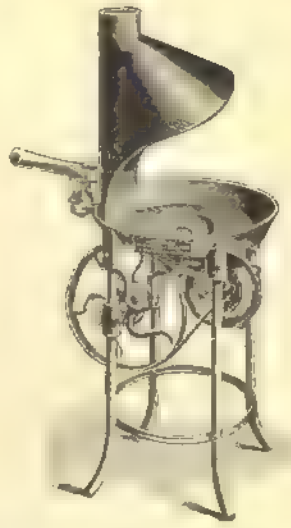
### Bench Crank Forge

| No. | Each |
|---|---|
| **21**—Hearth 14 x 17 in., Fan 7 in., Weight 45 lbs. | $16 00 |



### Agricultural, With Shield

| No. | Each |
|---|---|
| **150**—Hearth 18 in. Diam., Fan 8 in. Diam., Weight 75 lbs. | $14 00 |



### Agricultural, With Half Hood

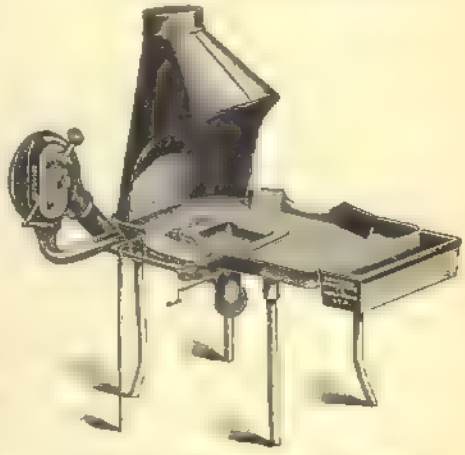
| No. | Each |
|---|---|
| **151** Hearth 18 in. Diam., Fan 8 in. Diam., Weight 80 lbs. | $16 00 |

### "Midway" Spiral Gear Rivet

| No. | Each |
|---|---|
| **75**—Cast-Iron Hearth 22 in. Diam., Fan 10 in. Diam., Height 33 in., Wt. 140 lbs. | $30 00 |

### "Midway" Spiral Gear, Boilermaker's

| No. | Each |
|---|---|
| **72** With Shield. Cast-Iron Hearth 25x35 in., Fan 10 in. Diam., Height 30 in., Wt. 185 lbs. | $36 00 |



### "Midway" Spiral Gear, Blacksmith's

| No. | Each |
|---|---|
| **71T**—Cast Iron Hearth 32x45 in., Fan 12 in. Diameter, Height 30 in. with Water Tank, Wt. 340 lbs. | $55 00 |

No. 401 C

### Miner's and Prospector's

With Ball Bearings, Patented High Speed Spiral Gearing.

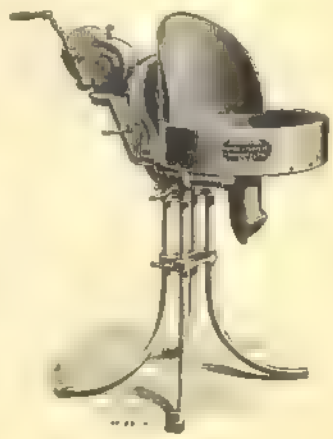
| No. | Each |
|---|---|
| **401¼C**—With Shield, Hearth 18 in., Fan 9 in. Diam., with Case Complete Wt. 180 lbs. | $42 00 |
| **401¼** Without Case, otherwise same as above, Wt. 100 lbs. | 35 00 |

### Champion Steel Rivet

With Ball Bearings, Patented High-Speed Spiral Gearing

| No. | Each |
|---|---|
| **401** -With Shield, Hearth 18 in. Diam., Height 30 in., Fan 9 in. Diam., Wt. 115 lbs. | $55 00 |

Can be taken apart for transportation and again set up in a few minutes



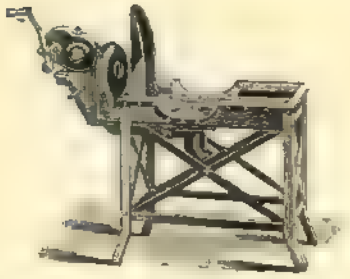
No. 40

SEATTLE HARDWARE COMPANY

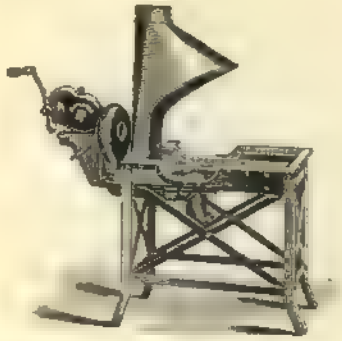
# PORTABLE FORGES

## CHAMPION

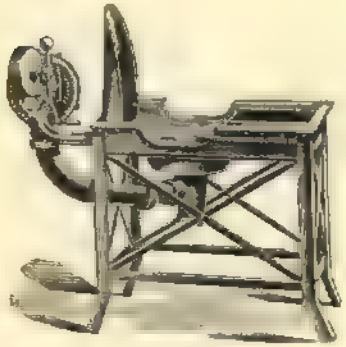
### With Adjustable Ball Bearings, Riveted-Steel Hearth



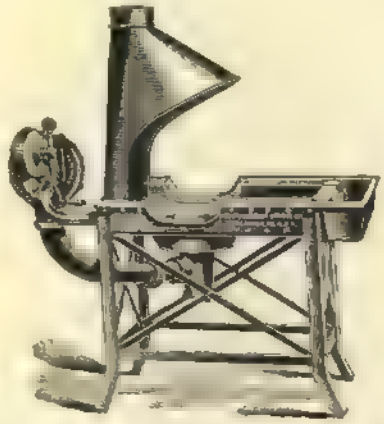
Rivet and Tool Makers'



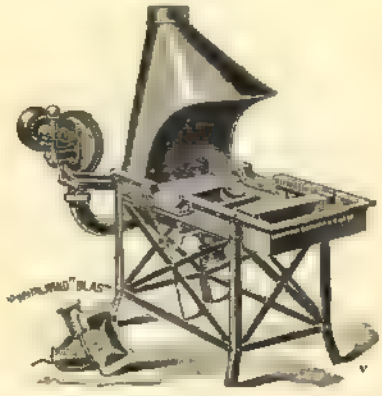
| No. | | Each |
|---|---|---|
| **404** | With Shield, Riveted Steel Hearth 24 x 24 in., Height 30 in., Fan 9 in. Diam., Weight 170 lbs. | $45 50 |
| **405** | —With Half Hood, otherwise same as No. 404. Weight 180 lbs. | 49 00 |



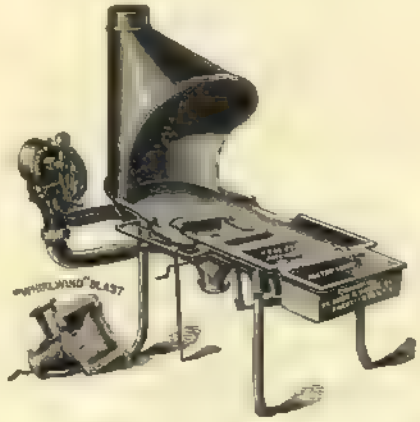
Boilermakers' and Machinists'



| No. | | Each |
|---|---|---|
| **406** | —With Shield, Hearth 30 x 30 in., Height 30 in., Fan 10 in. Diam., Wt. 230 lbs. | $55 00 |
| **406T** | —With Water Tank, otherwise same as 406 | 60 00 |
| **407** | —With Half Hood, Hearth 30 x 30 in., Height 30 in., Fan 10 in. Diam., Wt. 240 lbs. | $60 00 |
| **407T** | With Water Tank, otherwise same as 407 | 65 00 |

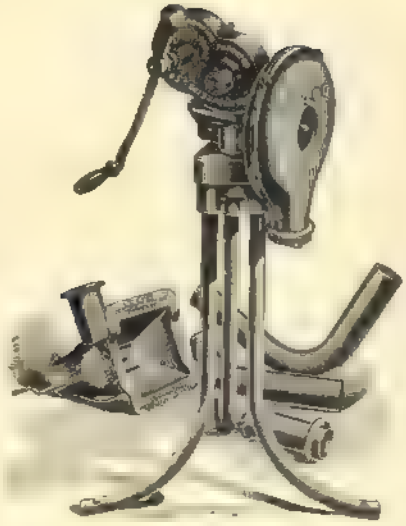


Horseshoers' and Blacksmiths'



| No. | | Each |
|---|---|---|
| **408** | With Half Hood, Riveted-Steel Hearth 30x36 in., Fan 12 in. Diameter, with Whirlwind Tuyere Iron, Wt. 300 lbs. | $65 00 |
| **408T** | —With Water Tank, otherwise same as 408.. | 70 00 |
| **433** | With Half Hood, Cast Iron Hearth 32 x 45 in., Height 30 in., Fan. 12 in. Diam., with Whirlwind Tuyere Iron, Wt. 375 lbs. | $55 00 |
| **433T** | With Water Tank, otherwise same as 433 | 60 00 |

# BLACKSMITHS' BLOWERS



No. 400—Champion

### No. 400—Champion

With "Whirlwind" Blast, Anti-Clinker, Heavy Nest Tuyere Iron. Adjustable ball bearings.

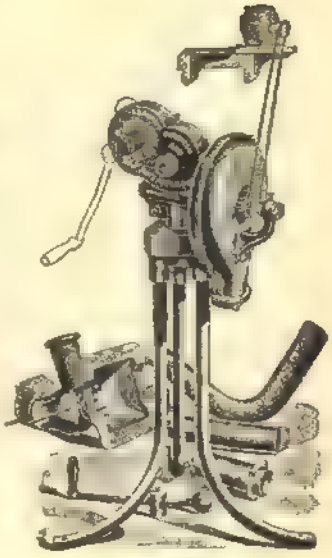
| No. | Each |
|---|---|
| **400**—Steel, Fan 12 in. Diameter, with Tuyere Iron and Pipe Complete, Weight each 100 lbs | $37 00 |

### No. 400½—Champion

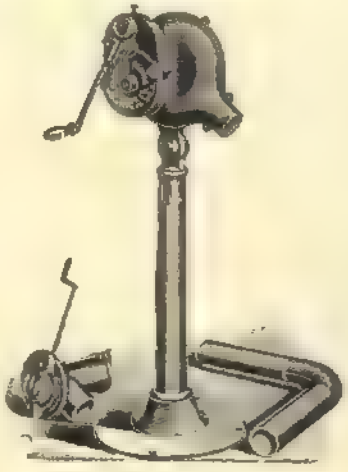
Same as No. 400 Blower except that it is equipped with pulley on the extended ball-bearing shaft so that it can be run by motor power as well as by hand.

| No. | Each |
|---|---|
| **400½**—Steel, Power and Hand Blower, Fan 12 in. Diameter, with Tuyere Iron and Pipe, Weight each 115 lbs | $48 50 |

The size of Motor required to run the No. 400½ Blower should be from ¼ to ⅓ horse power



No. 400½—Champion



No. 1—Lancaster

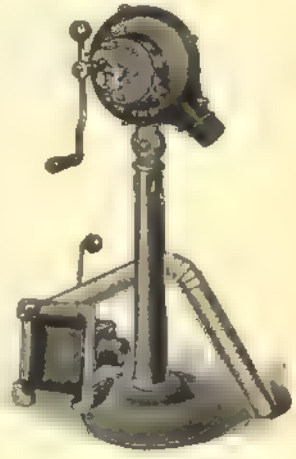
### Lancaster

Well built, geared, direct-driven blower, smooth running. Crank turns each way to make the blast

| No. | Each |
|---|---|
| **1**—Height 47 in., Fan 12 in. Diameter, Fire Pot 9 x 10 x 5 in. inside, Champion Adjustable Nozzle, Tuyere Iron Complete with Pipe, Weight each 175 lbs | $20 00 |

### Royal

| No. | Each |
|---|---|
| **H**—Height 47 in., Fan 12 in. Diameter, Fire Pot 8 x 9½ x 4 in. inside, Phosphor-bronzed Gears, Oil-tight and Dust-proof Gear Case. Weight each 185 lbs | $35 00 |

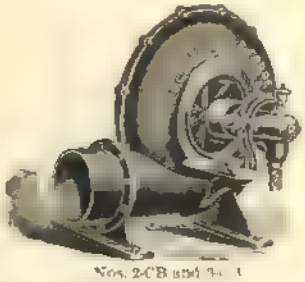


No. H—Royal

# POWER BLOWERS

## CHAMPION FAN

No. 00-CB



Nos. 2-CB and 3-CB

For forges and blowing fires in small stationary boilers and various purposes where a small quantity of air is desired.

| Nos. | 0-CB | 00-CB |
|---|---|---|
| Diameter Outlet, in. | 2⅜ | 3 |
| Capacity, Fires | 1 | 2 |
| Height, in | 10 | 14 |
| Weight Each, lbs | 15 | 33 |
| Each | $8 00 | 10 00 |

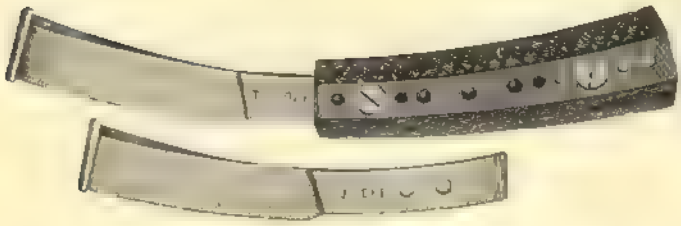
For supplying blast to forge fires, cupolas, furnaces and for any work where air is to be forced for a long distance, as in pneumatic tube systems, etc.

| Nos. | 2-CB | 3-CB |
|---|---|---|
| Diameter Outlet, in. | 4 | 5⅜ |
| Diameter Inlet, in | 5⅜ | 6½ |
| Height, in | 18 | 21½ |
| Weight Each, lbs. | 75 | 100 |
| Each | $20 00 | 25 00 |

SEATTLE HARDWARE COMPANY

# FARRIERS' KNIVES

POPE'S



**Pope's**—Iron Handle; Width of Blades, ⅝ and ¾ in. Weight per dozen, 6 lbs... Per Dozen $5 50
**Extra Blades**—⅝ and ¾ in.....Per Dozen 3 50

ONE-HALF DOZEN IN A BOX

WOSTENHOLM'S

**IXL**—Bone Handle: Width of Blades, ½, ⅝ and ¾ in. Weight per dozen, 4½ lbs. .....Per Dozen, $6 00

# BLACKSMITHS' APRONS

**New Muleskin Apron**

Material is pure Krom-tanned and is not affected by the heat.

**No. 8**—30x38 in., Medium. ..Per Dozen, $31 00

WEIGHT PER DOZEN 5 LBS

**Boss Apron**

Made of cowhide split leather, complete with nickeled eyelets and leather strings.

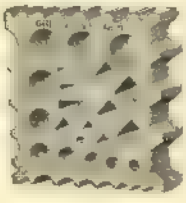
**No. A**—26x33 in., Medium.....Per Dozen, $20 00

WEIGHT PER DOZEN 21 LBS

# CONES OR MANDRELS

No. Per Pound
2—Diam. at Base 12 in., Diam at Top 2 in.. Approximate Weight 115 lbs ..... $0 08

# SWAGE BLOCKS

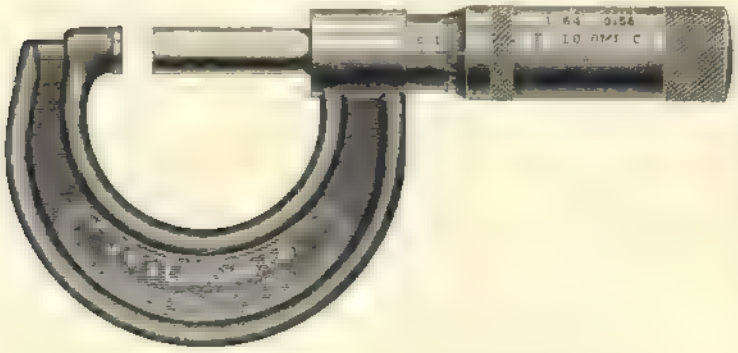


No. Per Pound
2—Size 15 x 15 x 4 in., Approximate Weight each 145 lbs..... $0 10

# MACHINISTS' TOOLS

## SLOCOMB MICROMETERS

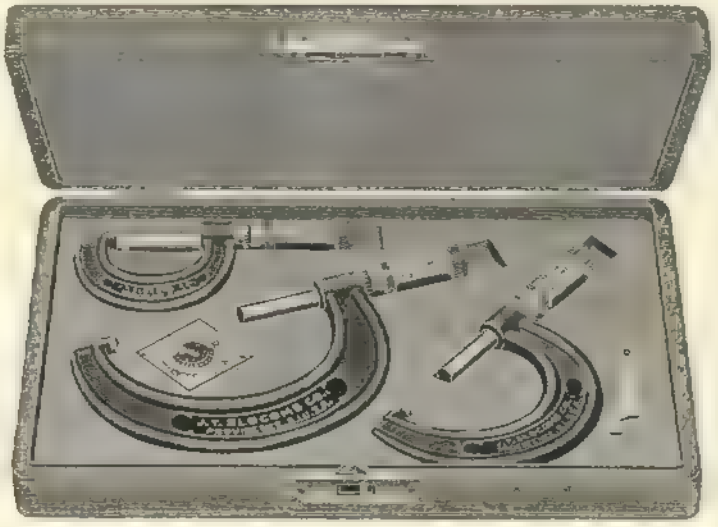
Frame is drop forged from bar steel. Separate readings for each ⅛ inch.



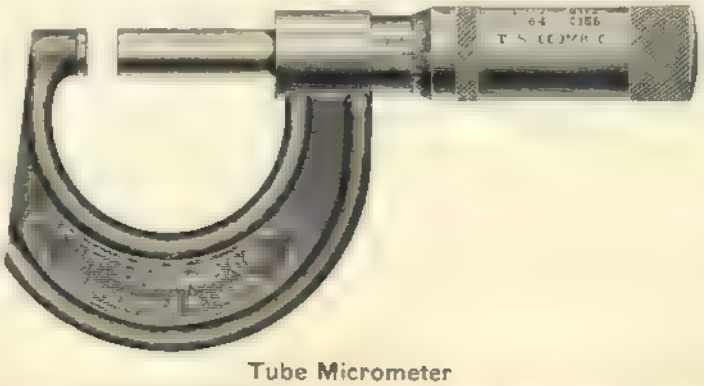
Friction Stop

With Friction Stop

| | | | | | | |
|---|---|---|---|---|---|---|
| No. 22 | Capacity 0 to 1 inch | Each (without case), | $3 50. | Case extra | $0 25 |
| " 25 | " 0 " 1 " | " " | 4 00 | " | 75 |
| " 27 | " 1 " 2 inches | " " | 4 00 | " | 1 00 |
| " 28 | " 2 " 3 " | " " | 5 50 | " | 1 00 |
| " 284 | " 3 " 4 " | " " | 6 00 | " | 1 75 |
| " 285 | " 4 " 5 " | " " | 6 50 | " | |
| " 286 | " 5 " 6 " | " " | 7 00 | " | |



**Set No. 21**—Capacity 0 to 3 inches. With Friction Stops (not shown)..... ..... Per Set, $13 50

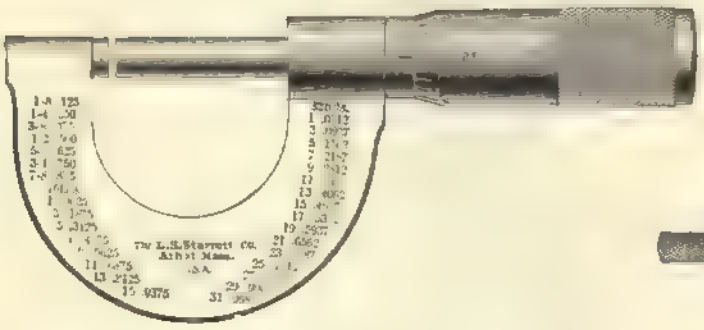


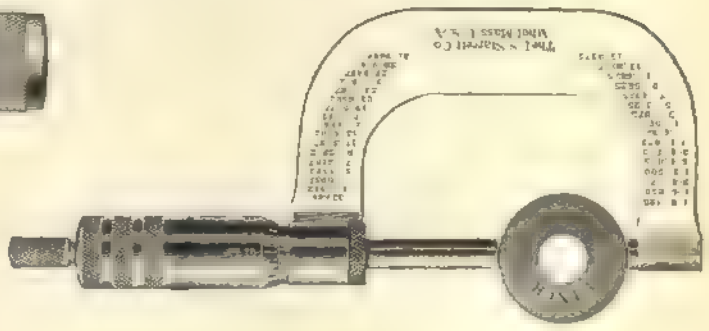
Tube Micrometer

**Set No. 31D** Capacity 0 to 1 inch. With Friction Stops (not shown) .Each (without case), $4 00. Case extra, $0 75

# MACHINISTS' TOOLS

## ONE AND TWO-INCH MICROMETERS





**No. 201** For measurements by 1000ths up to 1 in., has Lock Nut but no Ratchet Stop.....Each, $5 50

**No. 203**—For measurements by 1000ths up to 1 in.; has neither Lock Nut nor Ratchet Stop Each, $5 00

**Extra** With Leather Case, add to list . 50

**No. 2** For measurements by 1000ths from 1 in. to 2 in., with Lock Nut, Ratchet Stop and 1-in Test Gauge .....Each, $6 50

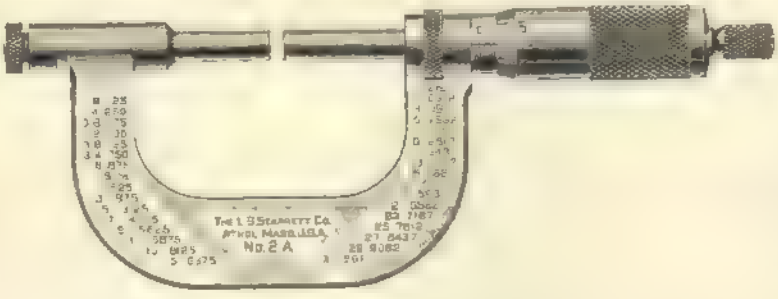
**Extra** With Leather Case, add to list 75

**No. 213** For measurements by 1000ths from 1 in. to 2 in., with Lock Nut, Ratchet Stop and 1-in. Test Gauge.....Each, $7 50

**Extra**—With Leather Case, add to list..... 75

### TWO-INCH MICROMETER

With One-Inch Attachment.



**No. 2A**—For measurements by 1000ths up to 2 in., with Lock Nut and Ratchet Stop Each, $8 50

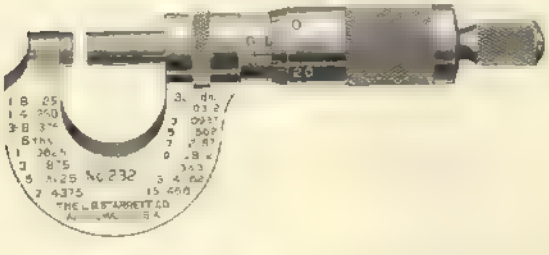
**Extra**—With Leather Case, add to list 75

### ATTACHMENT FOR TWO-INCH MICROMETER

This attachment, by means of which a 2-inch micrometer may be instantly converted into a 1 inch tool, will be furnished, when ordered, with any of our 2-inch or 50 millimeter micrometers. It will not fit No. 226 micrometer

**No. 212** .....Each, $2 00

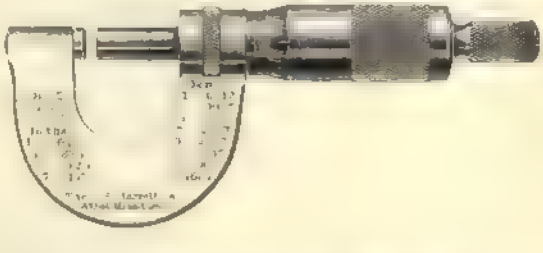
### HALF-INCH MICROMETER



**No. 232** For measurements by 1000ths up to ½ in.; short Anvil; has Lock Nut and Ratchet Stop. . Each, $5 00

**Extra** With Leather Case, add to list ..... 50

### HALF-INCH MICROMETER



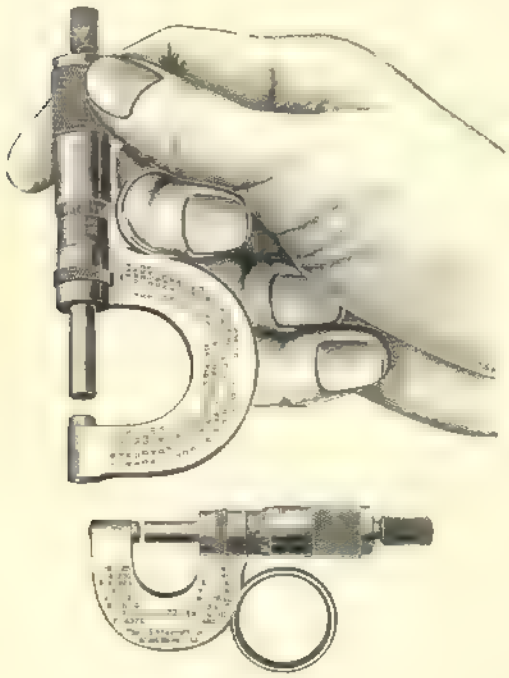
**No. 215**—For measurements by 1000ths up to ½ in.; has Lock Nut and Ratchet Stop... Each, $5 00

**Extra**—With Leather Case, add to list.. 50

SEATTLE HARDWARE COMPANY

# MACHINISTS' TOOLS

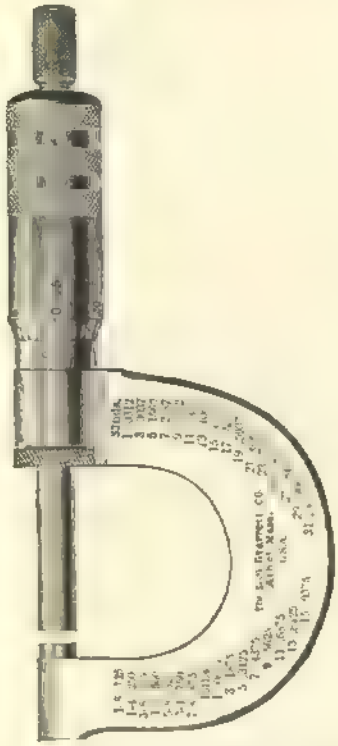
## MICROMETERS WITH FINGER RING



Nos. 220 and 221.

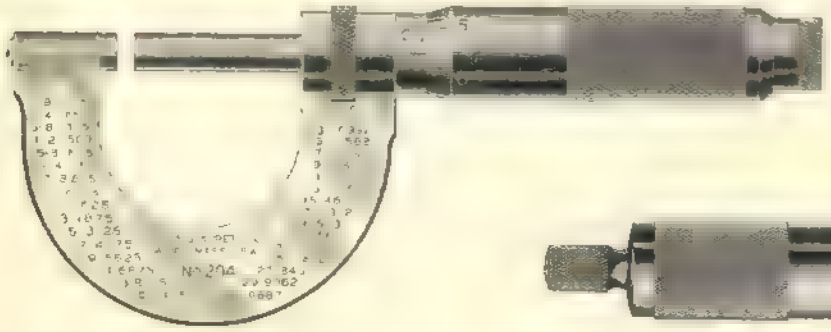
**No. 220**—For measurements by 1000ths up to one in., with Lock Nut and Ratchet Stop .....Each, $6 75
**No. 221** For measurements by 1000ths up to half in., with Lock Nut and Ratchet Stop. Each, 5 75
**Extra**—With Leather Case, add to list ..... 50

## ONE-INCH MICROMETER



**No. 3**—For measurements by 1000ths up to one in., with Lock and Ratchet Stop .....Each, $6 00
**No. 113** For measurements by 10,000ths up to one in., with Lock and Ratchet Stop. Each, 7 00
**Extra**—With Leather Case, add to list..... 50

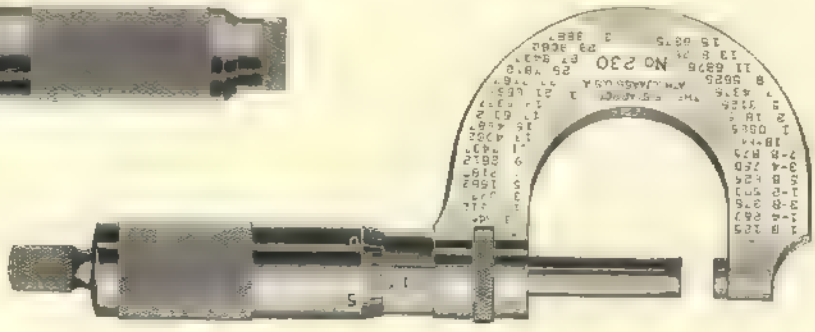
## ONE-INCH MICROMETERS



No. 204

For measurements by 1000ths up to one inch. Has Ratchet Stop and Lock Nut

**No. 204** .....Each, $10 00
**Extra**—With Leather Case..... " 10 50



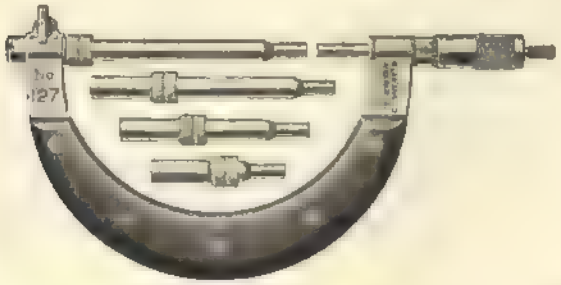
No. 230

For measurements by 1000ths up to one inch. The anvil is shortened for use in places where the ordinary anvil is too long to be inserted. Has Lock Nut and Ratchet Stop.

**No. 230** ..... Each, $6 00
**Extra**—With Leather Case . " 6 50

# MACHINISTS' TOOLS

## U. S. GOVERNMENT MICROMETER GAUGES



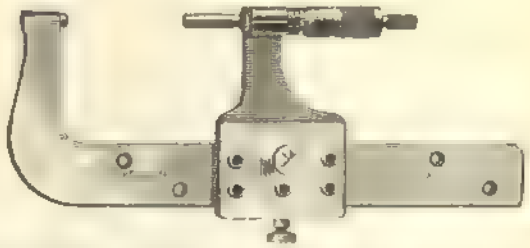
| No. | | Each |
|---|---|---|
| **127A** | 0 to 4 in | $25 00 |
| **127B** | 4 to 8 in | 37 00 |
| **127C** | 8 to 12 in | 50 00 |

*These gauges are designed and made to meet the requirements of the government in making big guns and other work in the ordnance department of government shops where they are used. The frames are cut from steel plates, finely finished. The handles are covered with hard rubber, set on with brass screws, preventing inaccuracy through expansion caused by change in temperature when held in warm hands. The micrometer screw adjusts one inch, reading 1/1000 of an inch, and is provided with our patent lock nut. The different length tail spindles, forming anvils, are quite changeable and have positive stops to set against their socketed seats. The adjusting collars on these anvils have catches to facilitate the removal of dirt, which would prevent them from setting accurately against the seat. The contact ends of spindles are slightly convex, to prevent catching on cylindrical work. Furnished with ratchet stop or speeded screw thumb-piece, as desired.*

*Furnished in oak case without extra charge.*

*Prices on larger sizes quoted on application.*

## PATENT SIX-INCH MICROMETERS



This Micrometer will measure round work to 4¼ inches and flat work to 6 inches. It weighs 21 ounces, and is rigid and accurate. It can be quickly set to exact position, from 1 inch to 6 inches, by inserting a plug as shown. A valuable feature of this tool is a set of six independent holes through both the movable part and the beam, each hole being bushed with hardened steel bushings, ground and lapped to fit the plug, which locates to exactness the various inch settings.

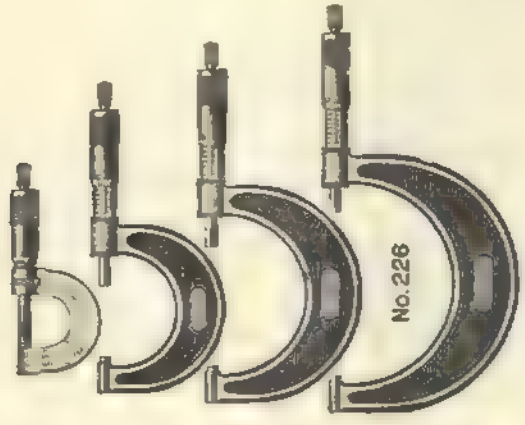
| No. | Each |
|---|---|
| **128** | $20 00 |
| **Extra**—In Leather Case, add to list | 1 50 |

## MICROMETER HEAD

Easily attached to tools or machines when fine measurements are required.

**No. 263**—With Ratchet Stop and Lock Nut, graduated to read 1000ths of an inch. Each, $3 50

## NEW MICROMETERS



Frames are drop forged from bar steel. Micrometer graduated by 1000ths of an inch, with or without Ratchet Stop.

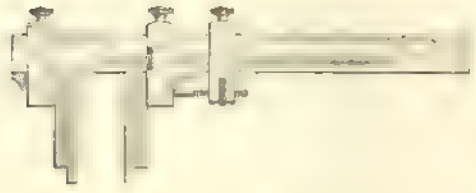
| Size | Measures | With Ratchet Stop | Without Ratchet Stop |
|---|---|---|---|
| **1** in. | 0 to 1 in. | Each, $6 00 | $5 50 |
| **2** in. | 1 to 2 in | 5 00 | 4 50 |
| **3** in. | 2 to 3 in. | 6 50 | 6 00 |
| **4** in. | 3 to 4 in. . | 7 00 | 6 50 |
| **5** in. | 4 to 5 in. . | 7 75 | 7 25 |
| **6** in. | 5 to 6 in. . | 8 50 | 8 00 |

### In Sets, With Case

| | With Ratchet Stop | Without Ratchet Stop |
|---|---|---|
| **Sets of 3** (1, 2 and 3 in.) | $19 00 | 17 50 |
| **Sets of 6** (all sizes 1 to 6 in.) | 45 00 | 40 00 |

# MACHINISTS' TOOLS

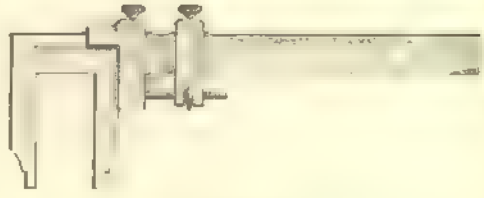
## CALIPER SQUARES



No 25

| Length, in..... | ..... | 4 | 6 |
|---|---|---|---|
| With Adjusting Screw. | Each, | $4 00 | 5 50 |
| Without Adjusting Screw | " | 3 50 | 5 00 |
| Extra for Hardened Jaws | | | 1 50 |
| In Leather Case, extra.... | | | 75 |

*For both inside and outside measure, the beam is graduated in 64ths on one side and 100ths on the other.*

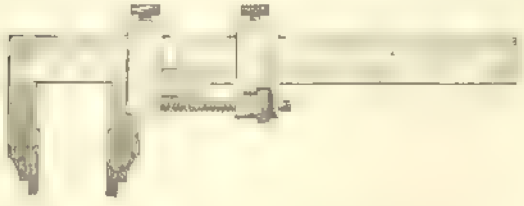


No. 426

| Length, in..... | | 4 | 6 |
|---|---|---|---|
| With Adjusting Screws..... | Each, | $4 50 | 7 50 |
| Without Adjusting Screws..... | " | 3 50 | 5 50 |
| Extra for Hardening Jaws..... | | | 1 50 |
| In Leather Case, extra..... | | | 75 |

*For both inside and outside measure.*

## MICROMETER CALIPER SQUARE



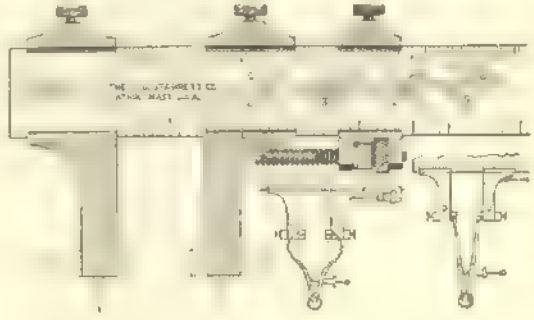
No. 28 For Outside and Inside

| Length, in..... | 4 | 6 | 9 | 12 |
|---|---|---|---|---|
| Without Case ..... | $8 00 | 10 00 | 14 00 | 18 00 |
| With Case ..... | 8 75 | 11 00 | 15 25 | 19 50 |

*This instrument enables one to enlarge or decrease work one or more thousandths from the [illegible] and has the value of a first class caliper square and micrometer of large scope and quick adjustment. The jaws are 2¾ inches long, hardened, and each has inches. One side of the beam is graduated in 64ths and the other in 50ths, and either side may be used as a common caliper square, or, through the micrometer, to show 1,000ths full length, on either inside or outside work. This is done by first setting the indicator mark on the movable jaw to agree with any division nearest the size wanted. Fasten it there, slack binding clasp, and turn the micrometer nut to agree with indicator mark on the clasp; now tighten this, slack movable jaw and turn micrometer nut, counting 1,000ths, adding to or taking from the division shown on beam at the starting point.*

*An excellent feature of this instrument is the spiral spring between jaw and clasp, which not only takes up all backlash, but limits the pressure against the work to strength of spring. This is instantly felt through released pressure on the nut, and prevents springing the jaws, thus calipering to a nicety.*

## MICROMETER CALIPER GAUGE



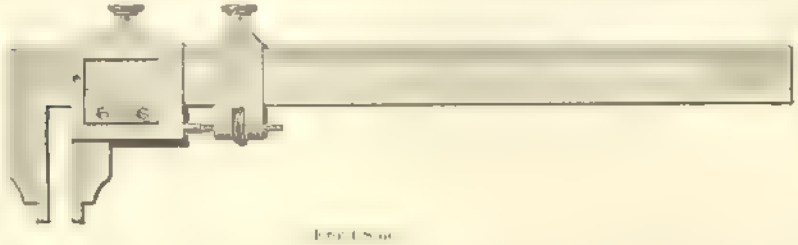
No. 24

| Length, in... | 12 | 18 | 24 | 36 |
|---|---|---|---|---|
| Each..... | $11 00 | 12 50 | 14 00 | 20 00 |

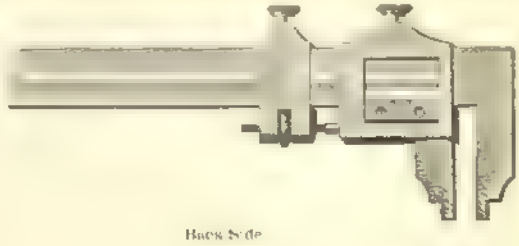
*This gauge is made to fit scales 1¼ in. wide, .085 in. thick, and 12, 18, 24 and 36 in. long, affording longer scope than anything of the kind heretofore made. The head of the gauge carries auxiliary Tram Points. Attachments are also made to slip on and off the ends of the caliper, so that they may be used for making close or drive fits. These attachments are made of the best tool steel, hardened and ground. The inside calipers are set against the inside face of gauge and resting on the seat of the attachments, which keep them in prefect line. The outside calipers are set against an extended seat of the attachment in line with the inside faces of the gauge so that both inside and outside calipers may be set to exactly agree with each other.*

*For measuring distances, the gauge may not only be set by the graduated scale but varied by the micrometer adjusting nut to read additional thousandths. The scale and all necessary working parts are hardened, making a first-class tool in every respect.*

## VERNIER CALIPERS



Front Side



Back Side

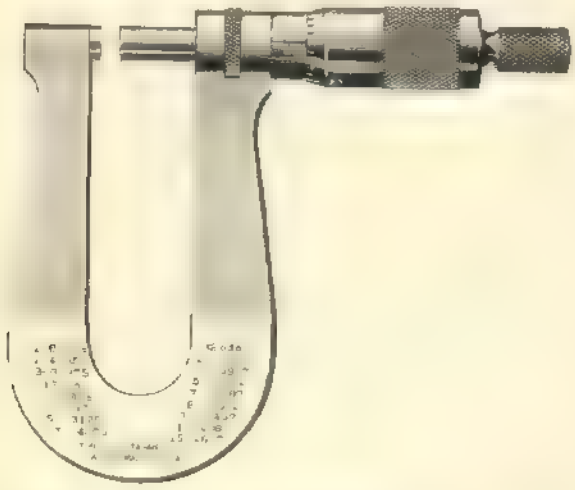
| No. | | Each in Case |
|---|---|---|
| 570-6 | —Size 6 in., Length of Jaws 1¼ in., Width of Jaws closed ¼ in..... | $15 00 |
| 570-12 | —Size 12 in., Length of Jaws 2¼ in., Width of Jaws closed ⅝ in..... | 20 00 |

*Graduated on the front to read by means of a vernier to 1000ths of an inch, they are graduated on the back to 64ths of an inch. The jaws are hardened and ground and take inside as well as outside measurements. Points are placed on the bars and slides so that dividers can be set to transfer distances.*

SEATTLE HARDWARE COMPANY

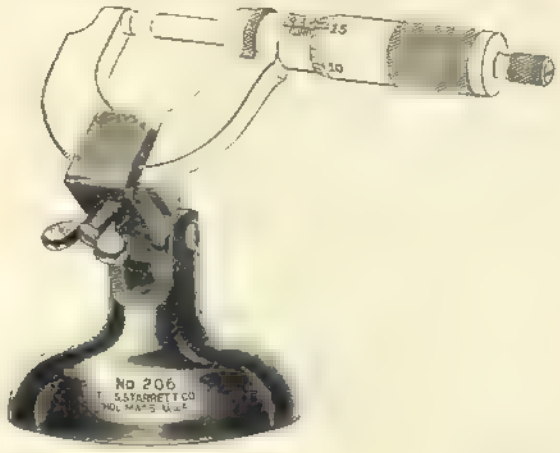
# MACHINISTS' TOOLS

## MICROMETER SHEET METAL GAUGE



**No. 222**—Micrometer Sheet Metal Gauge,.. Each $6 00
**Extra** —With Leather Case, add to list . 75

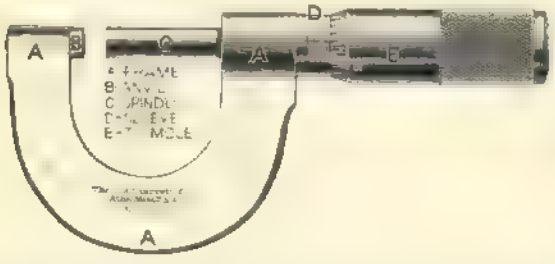
## IMPROVED MICROMETER STAND




**No. 206**.....Each, $2 00

*Improved shaped clamp and tilting bracket, so made that the micrometer with its measuring spindle will stand central over the base. A turn of the wing nut locks both the hinged bracket and the micrometer in position for convenient use. Stands are nicely finished and nickel plated.*

## HOW TO READ A MICROMETER

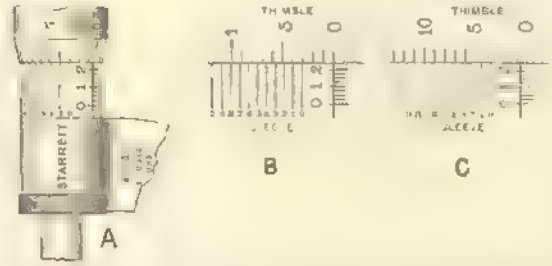



*The spindle C is attached to the thimble E at the point H. The part of the spindle which is concealed within the sleeve and thimble is threaded to fit a nut in the frame A. The frame being held stationary, the thimble E is revolved by the thumb and finger, and the spindle C being attached to the thimble revolves with it, and moves through the nut in the frame, approaching or receding from anvil B. The article to be measured is placed between the anvil B and the spindle C. The measurement of the opening between the anvil and the spindle is shown by the lines and figures on the sleeve D and the thimble E.*

*The pitch of the screw threads on the concealed part of the spindle is 40 to an inch. One complete revolution of the spindle therefore moves it longitudinally one fortieth (or twenty-five thousandths) of an inch. The sleeve D is marked with 40 lines to the inch, corresponding to the number of threads on the spindle. When the micrometer is closed, the beveled edge of the thimble coincides with the line marked 0 on the sleeve, and the 0 line on the thimble agrees with the horizontal line on the sleeve. Open the micrometer by revolving the thimble one full revolution, or until the 0 line on the thimble again coincides with the horizontal line on the sleeve; the distance between the anvil B and the spindle C is then 1/40 (or .025) of an inch, and the beveled edge of the thimble will coincide with the second vertical line on the sleeve. Each vertical line on the sleeve indicates a distance of 1/40 of an inch. Every fourth line is made longer than the others, and is numbered 0, 1, 2, 3, etc. Each numbered line indicates a distance of four times 1/40 of an inch, or one tenth.*

*The beveled edge of the thimble is marked in twenty-five divisions, and every fifth line is numbered, from 0 to 25. Rotating the thimble from one of these marks to the next moves the spindle longitudinally 1/25 of twenty-five thousandths, or one thousandth of an inch. Rotating it two divisions indicates two thousandths, etc. Twenty-five divisions will indicate a complete revolution, .025 or 1/40 of an inch.*

*To read the micrometer, therefore, multiply the number of vertical divisions visible on the sleeve by 25, and add the number of divisions on the bevel of the thimble, from 0 to the line which coincides with the horizontal line on the sleeve. For example, as the tool is represented in the engraving, there are seven divisions visible on the sleeve. Multiply this number by 25, and add the number of divisions shown on the bevel of the thimble, 3. The micrometer is open one hundred and seventy-eight thousandths.*




*Readings in ten thousandths of an inch are obtained by the use of a vernier, so named from Pierre Vernier, who invented the device in 1631. As applied to a micrometer this consists of ten divisions on the adjustable sleeve, which occupy the same space as nine divisions on the thimble. The difference between the width of one of the ten spaces on the sleeve and one of the nine spaces on the thimble is therefore one tenth of a space on the thimble. In engraving B the third line from 0 on thimble coincides with the first line on the sleeve. The next two lines on thimble and sleeve do not coincide by one tenth of a space on thimble; the next two, marked 5 and 2, are two tenths apart, and so on. In opening the tool, by turning the thimble to the left, each space on the thimble represents an opening of one thousandth of an inch. If therefore the thimble be turned so that the lines marked 5 and 2 coincide, the caliper will be opened two tenths of one thousandth or two ten thousandths. Turning the thimble further, until the line 10 coincides with the line 7 on the sleeve, as in engraving C, the caliper has been opened seven ten thousandths, and the reading of the tool is .2257.*

*To read a ten thousandths micrometer, first note the thousandths as in the ordinary micrometer, then observe the line on the sleeve which coincides with a line on the thimble. If it is the second line, marked 1, add one ten thousandth; if the third, marked 2, add two ten thousandths, etc.*

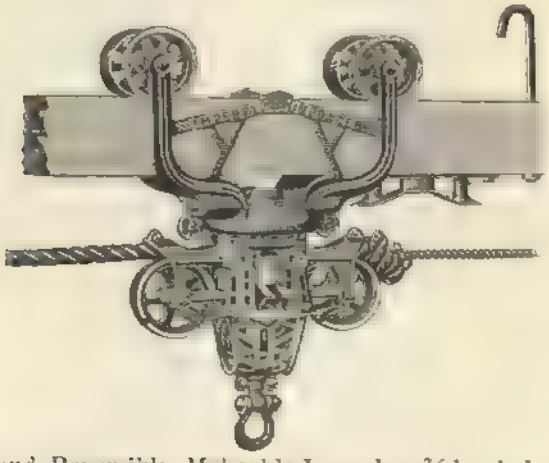
## RATCHET STOP FOR MICROMETERS.

*In using this device, the ratchet slips by the pawl when more than a certain amount of pressure is applied, and so prevents the measuring spindle from turning farther and perhaps springing the instrument.*

*It is valuable where a number of measurements have to be taken quickly and especially where measurements are taken by more than one person with the same micrometer, as by its use the same amount of pressure is applied to the objects measured, in each case.*

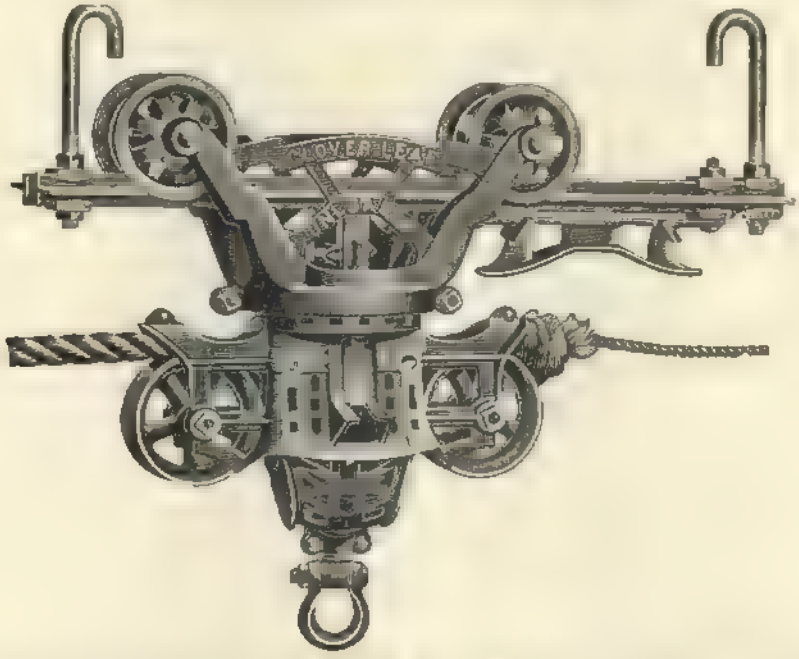
# HAYING TOOLS

## MYERS IMPERIAL UNLOADER



**No. 1039** For Wood Track, Swivel and Reversible, Malleable Iron; has ⅜-in. Axles and Oil Openings; Car is fitted with wide open mouth to receive the Fork Pulley. Weight, 32 lbs. ..... Each, $7 00

## MYERS CLOVER LEAF UNLOADER



**No. 1031**—For Double Steel Track, Malleable Iron, Swivel and Reversible; has ⅞ in. Turned Steel Axles; Car is fitted with wide open mouth to receive the Fork Pulley when approaching from any direction; also has a swinging Fork Pulley ..... Each, $7 00

**No. 824 Double Steel Track,** for Clover Leaf Pulleys ..... Per Foot, 20

**No. 302—Hanger Hooks** for Double Steel Track ..... Per Dozen, 1 40

## HANGER HOOKS

**No. 267—For Wood Track**

| **Length,** inches | 12 | 16 | 18 |
|---|---|---|---|
| Weight Doz., lbs | 10 | 12 | 14 |
| Per Doz. | $1 65 | 1 95 | 2 65 |

*Hanger Hooks for Double Steel Track, see above.*

## FLOOR HOOKS

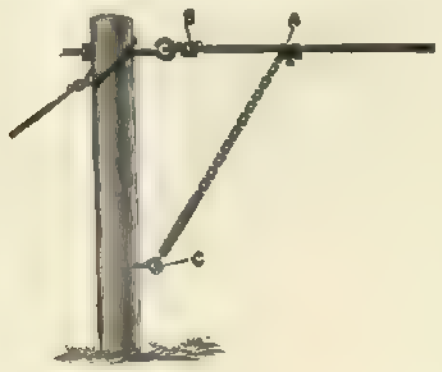
**No. 266—Wrought**

| Size, inch | ⅝ x 8 |
|---|---|
| Weight Doz., lbs. | 17 |
| Per Doz. | $2 10 |

SEATTLE HARDWARE COMPANY

# ROD TRACK FIXTURES

## ROD TRACK AUTOMATIC STOP AND RETURNER



No. 446

Each

**No. 446**—Weight each, 8¾ lbs. ..... $2 00

*This is the most complete device of its kind ever invented and should be used with every rod outfit. It not only absolutely insures the return of the carrier, but it makes it impossible for the carrier to run off the track.*

## ROD TRACK SWITCH OR CURVE

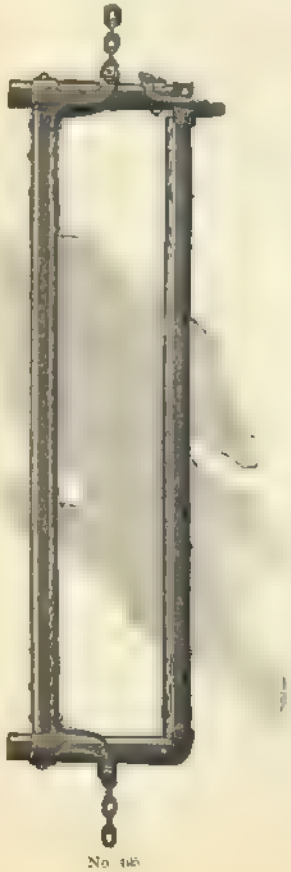
Each

**No. 354** Made of one piece of 1½ x 1¼ x ¼ in. Angle Iron, with Malleable Iron Ends grooved to receive the track and lock the switch to same. Weight each, 26 lbs. ..... $6 50

*This curved piece of angle iron is attached to another heavy angle iron which sets on top of the two intersecting lines of cable, holding the switch securely in place. Will work equally well as right or left hand switches, and can be readily placed in either position.*

*Not carried in stock; for factory shipment only*

# CATTLE STANCHIONS



No. 495

## "BOSS" ADJUSTABLE STEEL

### Special Wood Lining

Each

**No. 495**—Special High-Carbon U-Bar Steel; the hollow portions of the bars being turned inward and filled with a maple lining, the round portion of which projects beyond the U-Bar, insures a smooth surface where it comes in contact with the neck of cow. This makes the most practical wood lining ever devised for a stanchion. Wt. each, 18 lbs .. $3 80

**Double Adjustment.** *Adjustable in neck space from 3½ inches to 9 inches. The upright at the left slides on the crossbars at the top and bottom of the stanchion and is secured to them by set-screws so that when it is desired to increase or lessen the neck space it is only necessary to loosen the set-screws, adjust to the desired width and tighten them again. In this way the stanchion is instantly adjusted to hold a small calf or a bull as desired, and is a feature not found in other makes of steel stanchions.*

## STAR NON-ADJUSTABLE STEEL

Each

**No. 449**—6½-in. Neck Space, specially formed High-Carbon U-Bar Steel Uprights with rounded portions, Malleable Iron Latch, with chains which allow it to turn freely, giving the animal all the necessary freedom of movement. Wt. each, 18 lbs ..... $2 80

*The malleable thumb latch is easily and instantly opened or shut, as desired. It is only necessary to push the right-hand upright into a perpendicular position, when the latch will immediately lock, and the stanchion can not be unlocked in any way except by the operator. To lock the stanchion open, it is only necessary to allow the right-hand upright to drop back against the stanchion frame, as the latch on the stanchion is forked so that when the stanchion is open to allow the animal to leave the stall, it remains locked open so that it can re-enter.*

No. 449

# LITTER CARRIERS

## STAR, ROLLER BEARING

SEATTLE HARDWARE COMPANY

### For Double-Angle Steel Track

Swivel Trucks with Steel Roller Bearings, Galvanized Steel Tub, Channel Steel Bail, Electric Welded Steel Chain.

| Nos | 333-2 | 333-4 | 333-6 | *333-8 |
|---|---|---|---|---|
| Width of Tub, inches | 26 | 26 | 26 | 34 |
| Length of Tub, inches | 41 | 41 | 41 | 41 |
| Depth of Tub, inches | 14 | 17 | 19 | 24 |
| Weight Complete, lbs. | 95 | 103 | 111 | 135 |
| Each | $46 00 | 46 00 | 46 00 | 46 00 |

These Carriers have two swivel trucks fitted with two tracker wheels, each provided with steel roller bearings. The swivel trucks afford a double bearing on the track which allows the carrier to run steadily. To each of the swivel trucks is attached a supporting bracket in which revolve the roller bearing shaft on which the supporting chains wind. In other makes of litter carriers the shaft is supported at but two points, while the shaft of the Star Carrier is supported at four points.

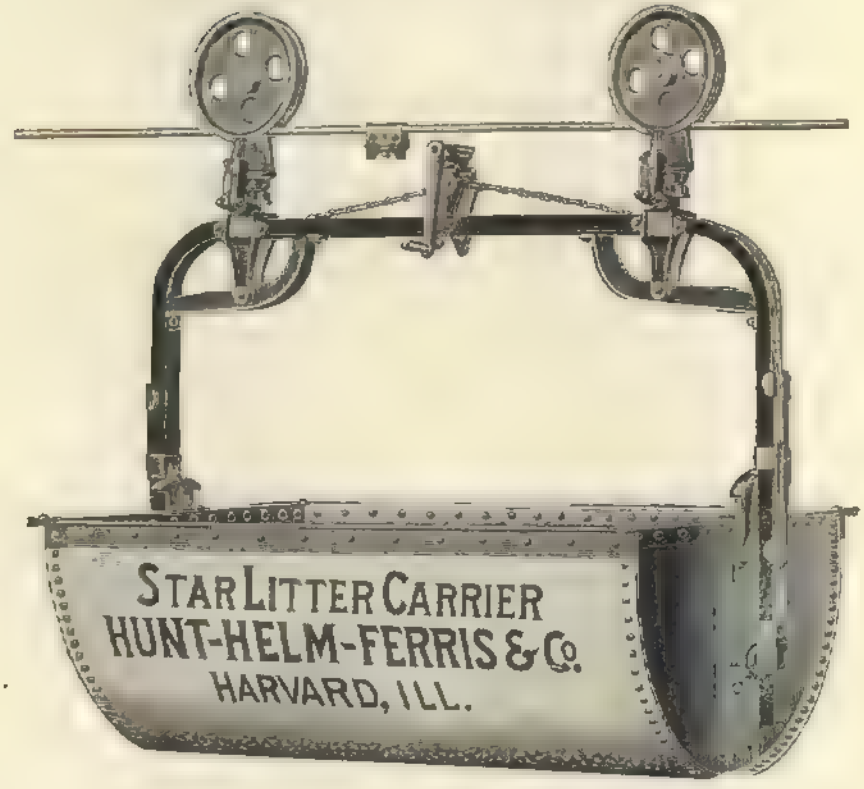
The tub is constructed of galvanized steel throughout, the ends being made of one piece with flanges formed on their edges to which the body sheet is riveted and then re enforced with heavy galvanized plates. The top edges of the tub ends and sides are re enforced with galvanized angle iron. These tubs are indestructible and have a large carrying capacity on account of their shape. They are self cleaning when dumped, and are supported by channel steel bails, which are attached to the roller bearing shaft by an electrically welded steel chain which is run under the pulley at each end of the bail.

*Not carried in stock; for factory shipment only.*

**Tub of No. 333-8 is built for use in horse barns. It is constructed of galvanized steel, excepting the ends which are made of wood, double thick, with grain crossed. The upper edge is strengthened with heavy galvanized angle iron and the corners are re-enforced with steel clips. Will hold 12 bushels.*

# LITTER CARRIERS

## STAR, ROLLER BEARING




### For Rod Track

Each

**No. 405**—8 in. diameter Grey Iron Tracer Wheels, with 12 extra long Cold-Rolled Steel Bearings in each wheel, Malleable Iron Tracker Wheel Frame, Channel Steel Rail, 26 x 41 x 14 in. Galvanized Steel Tub with top edges reenforced with heavy Galvanized Angle Iron. Weight each, complete, 110 lbs..... $37 00

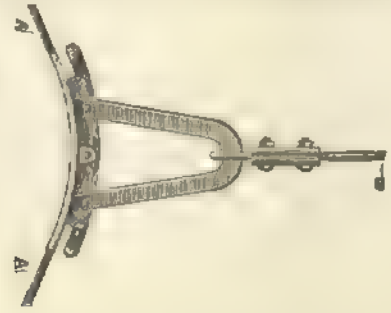
*This Carrier is adapted to operate on either right or left-hand curve. The bail provides for three adjustments, thus lowering and raising the tub to the desired height. The tub dumps either way, forks and spindles at both ends simultaneously, and thus holds absolutely rigid. It is impossible for this carrier to jump the track. By setting up the rod at the proper angle the carrier, when loaded, can be made to run out and dump at the desired point by simply giving it a vigorous push. When dumped, the carrier returns to the barn automatically. The tub is dumped by means of a trip block, which can be placed at any desired point on the track. This carrier can be instantly secured to the track at any point to hold it from moving along the track while loading.*

### ROD TRACK

Per 100 Ft.

**No. 0000**—Special Drawn Wire, adapted to meet the requirements of Litter-carrier outfits ..... $9 00

### ROD TRACK ANGLE BRACKET



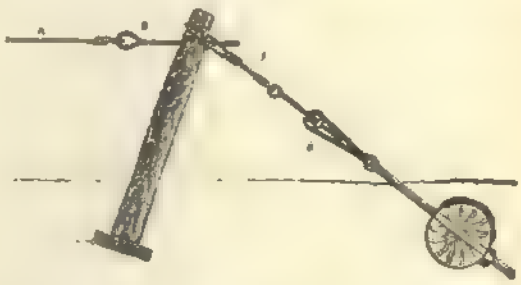

Each

**No. 344**—Weight each, 4 lbs..... $3 00

*Sometimes it is necessary to run one end of the rod track to one side of a direct line. This is accomplished by means of Angle Bracket shown above. The track (A) is fastened to the Angle Bracket by steel clips, and the bracket is held by a guy (B) secured to a post or otherwise, so as to hold the track in proper position. A tension bolt should be also used on the end of the guy rod.*

*Not carried in stock; for factory shipment only.*

### ROD TRACK ANCHOR ROD AND TURNBUCKLE



Each

**No. 353**—Weight, complete, 15 lbs..... $6 00

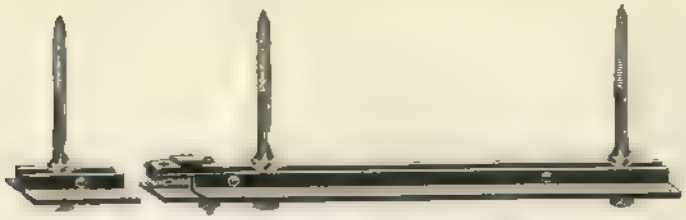
*It is very important for the successful working of a rod-track outfit that the ends of the track be properly secured, so that the track will not sag and get out of shape, but will remain taut and do good work.*

SEATTLE HARDWARE COMPANY

# LITTER CARRIER FIXTURES

**For Star Litter Carriers with Double-Angle Steel Track**

## STAR DOUBLE-ANGLE STEEL TRACK



Cut showing No 414 Lag Screw Hanger supporting the track

This Track consists of two pieces of $^{7}/_{8}$ in. angle steel riveted together, which makes a very rigid construction. The track is supported by steel hangers, as shown above and the hangers can be spaced to accommodate the joists.

Per Ft.

**No. 444**—6, 8 or 10 ft. Long. Weight per foot, 2 lbs... ..... $0 34

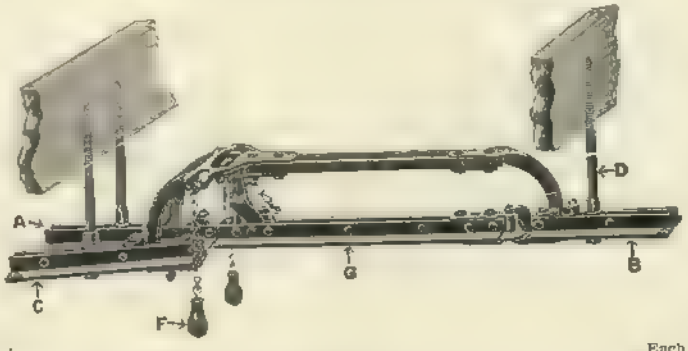
## LAG SCREW HANGERS

Per Doz

**No. 414**—10½ in. Long. Weight per Doz., 3 lbs... $2 10

*By the use of this hanger the track can be level, though the joists are irregular.*

## STAR TWO-WAY SWITCHES




Each

**No. 337**—Weight each, 25 lbs $5 25

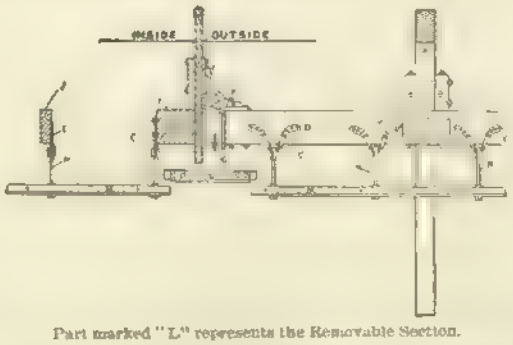
*This Switch is used where it is desired to run straight ahead, and either to the left or right of the main track. It can be operated from below, no matter how high the track may be hung. It is provided with an automatic safety lock, absolutely preventing the carrier from running off an open switch, so that if a switch should be accidentally left open there would be no danger of the carrier running off the track.*

## CURVES

Each

**No. 367** - Made of Angle Steel Track, for use with No. 337 Switch, 90 degree angle. Weight each, 12 lbs $4 00

## REMOVABLE SECTION OF TRACK




Part marked "L" represents the Removable Section.

Each

**No. 346** Complete with Splice Clamps that fit exactly to the ends of the adjoining track sections, making the track just as stationary and rigid at this point as any other. Weight each, 4 lbs ..... $1 25

*In order to allow the barn doors to close where the track passes out of the doorway, this removable section is used. It can be easily lifted out to allow the door to shut, and can be easily replaced when the carrier is to be used.*

*Not carried in stock; for factory shipment only.*

# HAYING TOOLS

SINGLE HARPOON FORK

DOUBLE HARPOON FORK

**Nellis**—Length 32 in.; Weight each, 13 lbs Each, $3 50 **No. 50**—25 in. Tine; Weight each, 18 lbs . Each, $2 50

ONE-HALF DOZ IN A BUNDLE

# HAY-FORK PULLEYS

No. 1

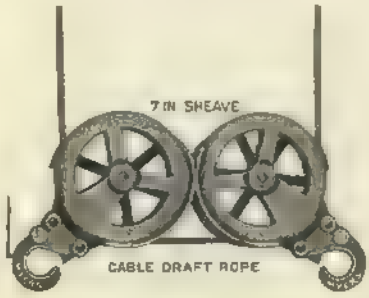
No. 11

No. 5

No. 15

| No. | | Per Doz |
|---|---|---|
| **1** | All-Cast-Iron Pulley, Re-enforced Ribs on Frame, Sheave 5½ in. Diameter; Weight Doz., 60 lbs . | $5 00 |
| **5** | Cast Iron Frame, Knot Passing, Hard Maple Sheave, 1¼ in. Loose Pin; Weight Doz., 43 lbs . | 5 00 |
| **11** | —Wrought Steel Frame, Malleable Swivel Eye, 5½ in Cast Iron Sheave, Weight Doz., 50 lbs . | 5 00 |
| **15** | —Wrought Steel Frame, Knot-Passing, 6-in. Hard Maple Sheave, 1 in. Pipe Bushing; Weight Doz., 35 lbs . | 6 00 |

| No. | | Per Doz. |
|---|---|---|
| **1062** | —Heavy Steel Frame, Iron Sheave, for ⅜ or ½ in. Wire Rope, Weight Doz., 85 lbs . . | $18 00 |




**Parallel Sling Pulleys**

For ⅜ or ½-in. Wire Rope

| No. | | Per Pair |
|---|---|---|
| **1276** | —Malleable Iron Frames, with 7-in. Iron Sheaves; Weight per Pair, 16 lbs. . | $3 00 |

# HORSESHOES

Cut Showing Shoe Complete

Cut Showing Drop Forging of Incomplete Shoe

## Octigan, Drop Forged

Fronts only, for city use.

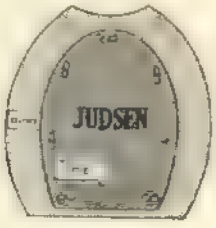
### Light Front

| Nos. | 1 | 2 | 2½ | 3 | 3½ | 4½ |
|---|---|---|---|---|---|---|
| Weight per Pair, lbs | 2 | 2¼ | 2½ | 2⅞ | 2⅞ | 4 |
| Per Pair | $2 00 | 2 00 | 2 00 | 2 00 | 2 00 | 2 50 |

| Nos. | 5 | 6 | 6½ | 7 | 8 |
|---|---|---|---|---|---|
| Weight per Pair, lbs | 4½ | 4¾ | 5¼ | 6¼ | 7 |
| Per Pair | $2 50 | 2 50 | 2 80 | 3 10 | 3 25 |

# HOOF PADS

## LEATHER




Nail Proof

Plain Leather

### Nail Proof

| Nos. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| Weight per Doz., lbs | 2½ | 3⅝ | 3½ | 4 | 5 | 5½ | 6½ | 6¾ | 7¼ |
| Per Dozen | $1 30 | 1 30 | 1 40 | 1 40 | 1 50 | 1 50 | 1 50 | 1 50 | 1 50 |

*A heavy leather pad, with steel plate securely riveted to bottom.*

HALF DOZEN IN A BUNDLE

### Plain Leather, Oak Tanned

| Nos. | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| Weight per Doz., lbs | 2 | 2½ | 2⅝ | 3½ | 4¼ | 4½ | 5 |
| Per Dozen | $2 00 | 2 00 | 2 35 | 2 70 | 3 00 | 3 50 | 3 75 |

## BUCKEYE RUBBER

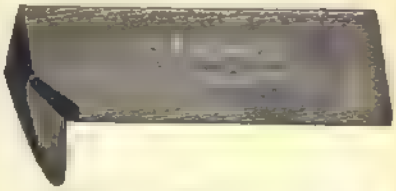
### Medium

| Nos. | 1 | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|
| Weight per Pair, lbs | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1⅝ | 1¾ | 1⅞ | 2 |
| Per Pair | $0 80 | 0 80 | 0 80 | 0 80 | 0 80 | 0 80 | 0 85 | 0 95 | 1 05 | 1 25 |

### Heavy

| Nos. | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|
| Weight per pair, lbs | 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1⅝ | 1¾ | 1⅞ | 2¼ | 2⅝ |
| Per Pair | $0 90 | 0 90 | 0 90 | 0 90 | 0 90 | 1 00 | 1 05 | 1 10 | 1 25 | 1 40 |

# STEEL TOE CALKS



## STANDARD.

**Nos. 1 to 6** ..... Per Pound, $0 12

| No. | Dimensions in Blunt (City) | Dimensions in Medium (Country) | Size | Approximate Number in One Pound |
|---|---|---|---|---|
| 1 | 7/16 x 1 1/2 x 1 1/2 | 7/16 x 1/2 x 1 5/8 | 3/8 x 5/8 x 2 | 14 |
| 2 | 3/8 x 1 1/2 x 1 1/4 | 11/12 x 7/8 x 1 3/4 | 3/8 x 3/4 x 2 1/4 | 8 |
| 3 | 3/8 x 7/8 x 1 7/8 | 3/8 x 11/16 x 2 | 1/2 x 3/4 x 2 1/4 | 6 |
| 4 | 7/16 x 7/8 x 2 1/4 | 7/16 x 13/16 x 2 5/16 | 1/2 x 7/8 x 2 7/8 | 4 |
| 5 | 1/2 x 3/4 x 2 1/2 | 7/16 x 7/8 x 2 1/2 | 9/16 x 1 x 2 7/8 | 3 |
| 6 | 1/2 x 7/8 x 2 3/4 | 1/2 x 1 x 2 3/4 | 7/8 x 1 x 3 | 2 1/2 |

## CLIMAX

**Climax—All Sizes** ..... Per Pound, $0 12

*In ordering always state both Class (A, B, C, etc.) and Length.*

### Table Showing Number in 100 Pounds

| Length, inch | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 | 3 1/4 | 3 1/2 |
|---|---|---|---|---|---|---|---|
| Class. Size. Inch. Equivalent to extra long | | | | | | | |
| A 1/4 x 1/8 2 in. — 0 | 1900 | | | | | | |
| B 9/32 x 13/32 2 in. — 0 | 1800 | | | | | | |
| C 7/16 x 1/2 2 in — 1 | 1300 | | | | | | |
| D 3/8 x 1/2 | | 880 | 750 | 680 | | | |
| E 1/8 x 9/16 2 1/4 in — 2 | | 750 | ..... | ..... | ..... | ..... | ..... |
| F 3/8 x 5/8 2 1/2 in. — 3 | | | 600 | 540 | 500 | ..... | ..... |
| G 3/8 x 3/4 . | | | | 480 | 427 | 395 | 363 |

| Length, inch | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 | 3 1/4 | 3 1/2 | 3 3/4 | 4 |
|---|---|---|---|---|---|---|---|---|---|
| Class. Size. Inch. Equivalent to extra long | | | | | | | | | |
| G1 3/8 x 7/8 . | | | | | | 345 | 325 | | |
| H 7/16 x 5/8 2 3/4 in — 4 | | | | 472 | . | | | | |
| I 1/2 x 7/8 . | 565 | 500 | 450 | 410 | 380 | | | | |
| J 1/2 x 3/4 3 in. — 5 | | | | . | 310 | 289 | 268 | 250 | |
| K 1/2 x 5/8 3 1/4 in — 6 | | | | 290 | 269 | 248 | . | | |
| K 1/2 x 7/8 3 1/2 in — 7 | | | | | | | 230 | 215 | 202 |
| L 1/2 x 1 | | | | | | | 205 | 187 | . |

*We stock only sizes on which number in 100 lbs. is given.*

ALL ABOVE TWENTY-FIVE POUNDS IN A BOX.

# HORSESHOE NAILS

| Nos. | 3 | 4 | 4½ | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| Capewell, Regular Heads ..... Per Pound. | $0 75 | 0 35 | 0 30 | 0 22 | 0 16 | 0 16 | 0 17 | 0 16 | 0 16 |
| Capewell, Extra Large Heads ..... " | .... | .... | .... | .... | 19 | 18 | 17 | 16 | 16 |
| Northwestern, Regular Heads ..... " | .... | .... | .... | 22 | 19 | 18 | 17 | 16 | 16 |

FIVE POUNDS IN A PAPER BOX. TWENTY-FIVE POUNDS IN A WOODEN BOX.

SEATTLE HARDWARE COMPANY

# HORSESHOES

## NEVERSLIP

### Iron, Drilled and Tapped

| Nos. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|
| Weight Each, oz. | | 12 | 15 | 18 | 22 | 29 | 32 | 36 |
| Number in Keg. | | 133 | 107 | 89 | 73 | 55 | 50 | 44 |
| Front | Per Keg. | $14 50 | 14 00 | 14 00 | 14 00 | 14 00 | 14 00 | 14 00 |
| Hind | " | 14 50 | 14 00 | 14 00 | 14 00 | 14 00 | 14 00 | 14 00 |

ONE HUNDRED POUNDS NET IN A KEG

### Iron, Drilled, Tapped and Calked, in Sets

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Weight per Set, lbs. | 3½ | 4½ | 5½ | 6½ | 8½ | 10½ | 12½ |
| Per Set | $1 10 | 1 20 | 1 30 | 1 45 | 1 65 | 1 90 | 2 10 |

FIVE SETS IN A BOX

# HORSESHOE CALKS

### Rowe Ring-Point, Square

| Size, in | ¼ | 7/16 | ½ | 9/16 | ⅝ |
|---|---|---|---|---|---|
| Weight per 100 lbs. | 2½ | 4 | 5½ | 7¼ | 10 |
| Per 100 | $2 00 | 2 20 | 2 20 | 2 40 | 2 40 |

*These calks have wedge-shaped welded tool steel centers*

FIFTY IN A BOX. ONE THOUSAND IN A CASE

# TAPS

## FOR THREADING DRILLED HOLES IN NEVERSLIP SHOES

| Size, in | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ |
|---|---|---|---|---|---|---|
| No. 1—Stub Each, | $ 0 50 | 0 60 | 0 70 | 0 80 | 0 90 | 1 00 |
| No. 2—Hand " | 50 | 60 | 70 | 80 | 90 | 1 00 |

*No. 1 Stub Taps are for use in repairing any damage to the threads in calk holes, WITHOUT REMOVING THE SHOE from the horse's foot. No. 2 Hand Taps are for cutting threads in the calk-holes by hand, and are used with an ordinary wrench.*

# WRENCH

## NEVERSLIP

**Neverslip**—For Adjusting Neverslip Calks, inserts and removes all sizes, . . . . . Each, $1 00

SEATTLE HARDWARE COMPANY

# HORSESHOES

## SNOW

Front

Hind

### Front, Snow

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Weight, oz. | 12 | 14½ | 18 | 21 | 25 | 27 | 30 |
| Number in Keg | 133 | 110 | 88 | 76 | 64 | 59 | 53 |
| Per Keg | $6 25 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 |

### Hind, Snow

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Weight, oz. | 10 | 12 | 15 | 18 | 22 | 25½ | 28 |
| Number in Keg | 160 | 133 | 106 | 88 | 73 | 62 | 57 |
| Per Keg | $6 25 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 |

### Front and Hind Assorted, Snow

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Number in Keg | 146 | 123 | 99 | 82 | 68 | 61 | 55 |
| Per Keg | $6 25 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 |

ALL ABOVE ONE HUNDRED POUNDS NET IN A KEG

# MULE SHOES

| Nos. | 00 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|
| Weight, oz. | 7 | 8½ | 9½ | 12 | 15½ | 20 | 24½ | 32 |
| Number in Keg | 229 | 188 | 168 | 133 | 103 | 80 | 65 | 50 |
| Per Keg | $8 50 | 8 50 | 7 25 | 7 00 | 7 00 | 7 00 | 7 00 | 7 00 |

ONE HUNDRED POUNDS NET IN A KEG

# HORSESHOES

## LIGHT, LONG HEEL

Front

Hind

### Front, Light, Long Heel

| Nos. | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|
| Weight, oz | 21 | 27 | 32 | 38 | 43 |
| Number in Keg | 76 | 59 | 50 | 42 | 37 |
| Per Keg | $6 00 | 6 00 | 6 00 | 6 00 | 6 00 |

### Hind, Light, Long Heel

| Nos. | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|
| Weight, oz | 18 | 24 | 30 | 35 | 40 |
| Number in Keg | 76 | 59 | 50 | 46 | 40 |
| Per Keg | $6 00 | 6 00 | 6 00 | 6 00 | 6 00 |

ONE HUNDRED POUNDS NET, IN A KEG

## EXTRA LIGHT

Front

Hind

### Front, Extra Light

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|
| Weight Each, oz. | 10½ | 13 | 16 | 19 | 22½ | 26 | 34 | 36½ |
| Number in Keg | 152 | 123 | 100 | 84 | 71 | 62 | 47 | 42 |
| Per Keg | $6 25 | 6 25 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 |

### Hind, Extra Light

| Nos | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|
| Weight Each, oz. | 9 | 11 | 14 | 17 | 21 | 25 | 30 | 34 |
| Number in Keg | 178 | 146 | 114 | 94 | 76 | 64 | 53 | 47 |
| Per Keg | $6 25 | 6 25 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 |

SEATTLE HARDWARE COMPANY

# HORSESHOES

## MEDIUM

Front

Hind

### Front, Medium

| Nos. | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| Weight Each, oz | 21 | 25 | 30 | 35 | 41 | 47 | 53 |
| Number in Keg | 76 | 64 | 53 | 46 | 39 | 34 | 30 |
| Per Keg | $6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 |

### Hind, Medium

| Nos. | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| Weight Each, oz | 17 | 21 | 24½ | 30 | 35 | 40 | 45 |
| Number in Keg | 94 | 76 | 65 | 53 | 46 | 40 | 35 |
| Per Keg | $6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 |

## LIGHT

Front

Hind

### Front, Light

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| Weight Each, oz | 11 | 13½ | 17 | 20 | 24½ | 30 | 38 | 44 | 53 |
| Number in Keg | 145 | 118 | 94 | 80 | 65 | 53 | 42 | 36 | 30 |
| Per Keg | $6 25 | 6 25 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 |

### Hind, Light

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| Weight Each, oz | 9 | 12½ | 15 | 18 | 23 | 26 | 33 | 37 | 45 |
| Number in Keg | 177 | 128 | 107 | 89 | 70 | 62 | 48 | 43 | 35 |
| Per Keg | $6 25 | 6 25 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 |

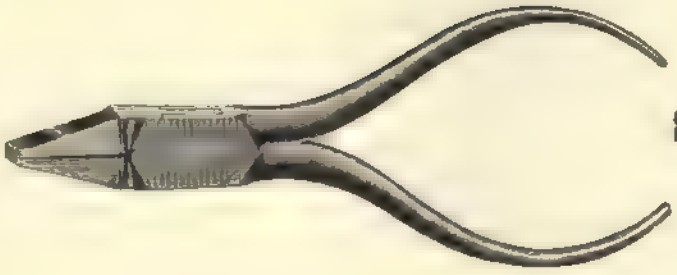
### Front and Hind Assorted, Light

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| Number in Keg | 150 | 120 | 100 | 85 | 68 | 57 | 45 | 40 | 33 |
| Per Keg | $6 25 | 6 25 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 | 6 00 |

ONE HUNDRED POUNDS NET, IN A BOX

# PLIERS

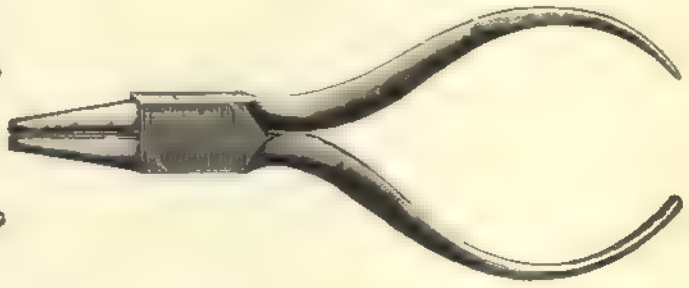
GERMAN CAST STEEL



### No. 2 — Flat Nose

Forged Steel, Polished Jaws, Lap Joint.

| Length | Weight Doz. | Per Doz. |
|---|---|---|
| 3 in. | 1½ lbs. | $2 60 |
| 4 in. | 2 lbs. | 2 60 |
| 4½ in. | 2½ lbs. | 2 80 |
| 5 in. | 3¾ lbs. | 3 25 |
| 6 in. | 4¼ lbs. | 4 00 |
| 7 in. | 6½ lbs. | 5 00 |



### No. 3 - Round Nose

Forged Steel, Polished Jaws, Lap Joint

| Length | Weight Doz. | Per Doz. |
|---|---|---|
| 4 in. | 2 lbs. | $2 60 |
| 4½ in. | 2½ lbs. | 2 80 |
| 5 in. | 3 lbs. | 3 25 |
| 6 in. | 4 lbs. | 4 00 |
| 7 in. | 6 lbs. | 5 00 |

### No. 520 — Long, Flat Nose

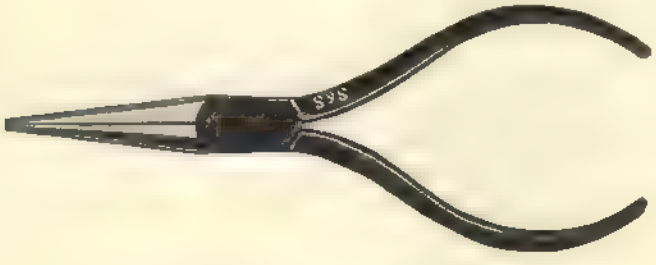
Forged Steel, Polished Jaws, Lap Joint

| Length | Weight Doz. | Per Doz. |
|---|---|---|
| 4 in. | 2 lbs. | $3 50 |
| 4½ in. | 2½ lbs. | 3 75 |
| 5 in. | 3 lbs. | 4 00 |

### No. 520A - Long, Round Nose

Forged Steel, Polished Jaws, Lap Joint

| Length | Weight Doz. | Per Doz. |
|---|---|---|
| 4 in | 2 lbs. | $3 50 |
| 4½ in | 2½ lbs. | 3 75 |
| 5 in. | 3 lbs. | 4 00 |




### No. 522 — Chain, Extra Quality

Forged Steel, Polished Jaws, Lap Joint.

| Length | Weight Doz. | Per Doz. |
|---|---|---|
| 4 in. | 2 lbs. | $4 50 |
| 4½ in. | 2½ lbs. | 4 75 |
| 5 in. | 3 lbs. | 5 00 |

### No. 1 — Weaver's, Extra Quality

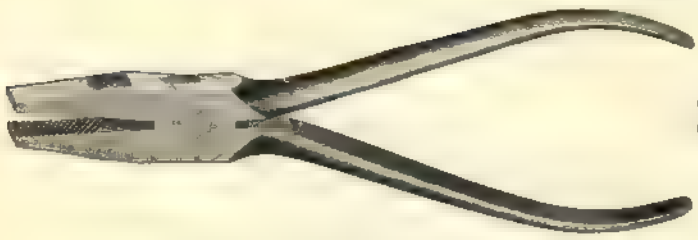
Forged Steel, Polished Jaws, Lap Joint.

| Length | Weight Doz. | Per Doz. |
|---|---|---|
| 4 in. | 1¾ lbs. | $5 25 |

ALL OF ABOVE ONE HALF DOZ IN A BOX

# PLIERS

## UTICA FINISH



### No. 20—Regular Flat Nose

Drop-Forged Steel, Utica Finish.

| Size, In. | Weight, Doz. | Per Doz. |
|---|---|---|
| 4 | 1½ lbs. | $4 20 |
| 5 | 2½ lbs. | 4 80 |
| 6 | 4 lbs | 5 40 |

### No. 21—Regular Round Nose

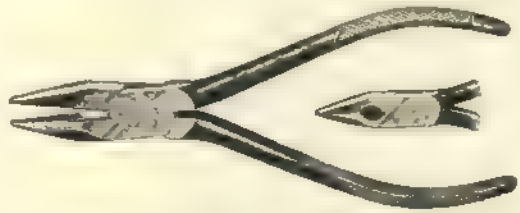
Drop-Forged Steel, Utica Finish.

| Size, In. | Weight, Doz. | Per Doz |
|---|---|---|
| 4 | 1½ lbs. | $4 20 |
| 5 | 2½ lbs | 4 80 |
| 6 | 4 lbs | 5 40 |

### No. 1033—Jewelers' Long Nose

Drop-Forged Steel, Utica Finish.

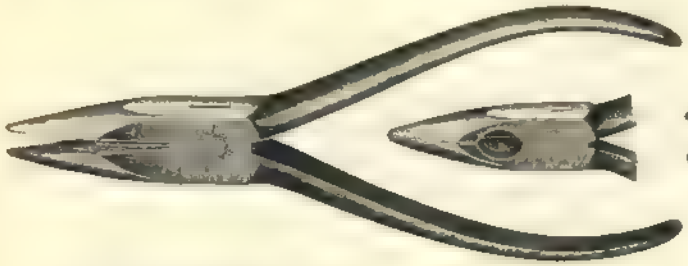
| Size, In. | Weight, Doz. | Per Doz. |
|---|---|---|
| 5½ | 3½ lbs. | $ 9 00 |
| 6½ | 4½ lbs. | 12 00 |



### No. 024—Milliners'

Drop-Forged Steel, Nickel Plated.

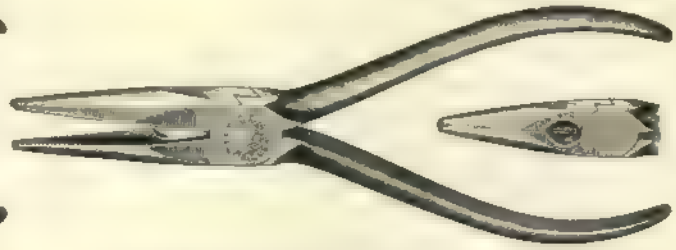
| Size, In. | Weight, Doz. | Per Doz |
|---|---|---|
| 5 | 2½ lbs. | $9 00 |



### No. 622 - Machinists' Chain Nose, Side Cutting

Drop-Forged Steel, Utica Finish.

| Size, In. | Weight, Doz. | Per Doz. |
|---|---|---|
| 5 | 2½ lbs. | $7 80 |



### No. 655 Long Chain Nose, Side Cutting

Drop-Forged Steel, Utica Finish.

| Size, In. | Weight, Doz. | Per Doz |
|---|---|---|
| 5½ | 3½ lbs | $10 20 |
| 6½ | 4 lbs | 12 00 |

### No. 50—Standard Side Cutting

Drop-Forged Steel, Utica Finish.

| Size, In. | Weight, Doz | Per Doz. |
|---|---|---|
| 5 | 4 lbs. | $ 7 20 |
| 6 | 6½ lbs. | 7 80 |
| 7 | 8 lbs. | 9 60 |
| 8 | 12 lbs. | 10 80 |

### No. 1050—Side Cutting

Drop-Forged Steel, Utica Finish

| Size, In. | Weight, Doz. | Per Doz |
|---|---|---|
| 4 | 2½ lbs. | $4 80 |
| 5 | 3½ lbs | 5 40 |
| 6 | 6¼ lbs | 6 60 |
| 7 | 7½ lbs. | 7 80 |
| 8 | 11 lbs | 9 60 |

ALL ABOVE, EACH IN A CARTON ONE HALF DOZEN IN A BOX

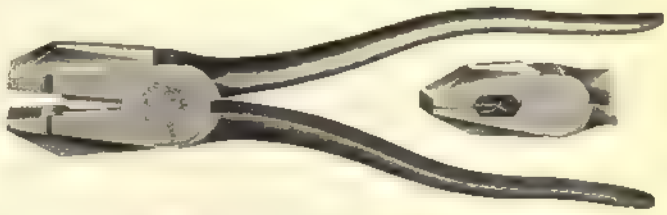
# PLIERS

## SIDE CUTTING

### No. 700 — Utica Household Combination

Drop-Forged Steel, Utica Finish.

| Length In. | Weight, Doz. | Per Doz |
|---|---|---|
| 7 | 9 lbs. | $10 20 |



### No. 1950 — Linemen's Heavy Side Cutting

Utica Finish, Polished Head, Checkered Handles.

| Size In. | Weight Doz. | Per Doz |
|---|---|---|
| 6 | 5⅜ lbs. | $10 20 |
| 7 | 9¼ lbs. | 12 00 |
| 8 | 13¼ lbs. | 15 00 |
| 9 | 15½ lbs. | 21 00 |

### No. 40 — P., S. & W. Linemen's

Lap Joint, Raised Cutters, Crucible Steel, Polished Head.

| Length In. | Weight Doz. | Per Doz. |
|---|---|---|
| 6 | 5 lbs | $13 50 |
| 7 | 6½ lbs | 10 00 |
| 8 | 10½ lbs | 11 75 |

### No. 300 — P., S. & W. Insulated, Linemen's

Box Joint, Star Rivet, Crucible Steel, Polished Jaws

| Length In. | Weight Doz | Per Doz. |
|---|---|---|
| 6 | 6 lbs. | 24 50 |
| 7 | 18 lbs | $29 25 |
| 8 | 12 lbs. | 34 00 |

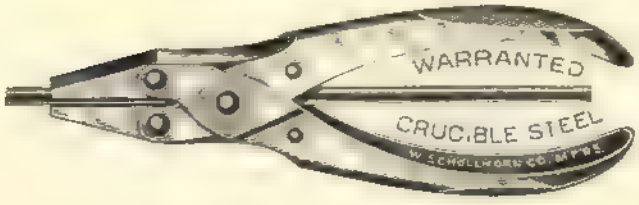
## KLEIN'S LINEMEN'S

### Klein's Genuine, Special, High Grade

Hand Forged from Extra Bar Steel, Tempered, Black Finish, Polished Head.

| | | |
|---|---|---|
| **No. 312A**—Length 6 in., Weight Doz. 7½ lbs. | Per Dozen, | $30 00 |
| **No. 312B**—Length 7 in., Weight Doz. 9½ lbs. | " | 36 00 |
| **No. 312C**—Length 8 in., Weight Doz. 14 lbs. | " | 43 20 |

## BERNARD'S




### No. 100 — Flat Nose

Steel, Nickel Plated, Open Throat, Parallel Jaws

| Size In | Weight Doz | Per Doz |
|---|---|---|
| 4½ | 5 lbs. | $10 00 |
| 5½ | 6 lbs. | 12 50 |
| 6½ | 7½ lbs. | 15 00 |

### No. 102 — Cutting

Steel, Nickel Plated, Open Throat, Parallel Jaws

| Size In | Weight Doz | Per Doz |
|---|---|---|
| 4½ | 5 lbs. | $11 50 |
| 5½ | 7 lbs. | 14 50 |
| 6½ | 8½ lbs. | 17 50 |
| 7½ | 10 lbs. | 23 50 |

ALL ABOVE ONE HALF DOZ IN A BOX

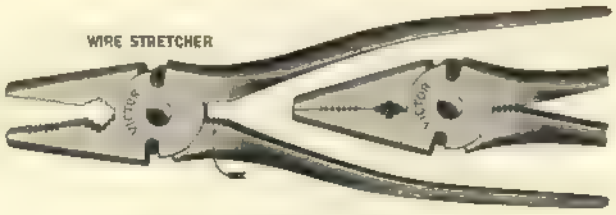
# PLIERS

## BUTTON'S

### No. 1000 — Utica, Button's Pattern

Drop-Forged Steel, Utica Finish.

| Size, in. | Weight Doz. | Per Doz. |
|---|---|---|
| 4½ | 3 lbs. | $4 20 |
| 6 | 7 lbs. | 4 80 |
| 8 | 11 lbs. | 6 00 |
| 10 | 18 lbs. | 9 00 |




### No. 117 — Victor, Button's Pattern

Drop-Forged Steel, Nickel Plated

| Size, in. | Weight Doz | Per Doz |
|---|---|---|
| 4½ | 3 lbs. | $10 00 |
| 6 | 7 lbs. | 12 00 |
| 8 | 11 lbs. | 15 00 |
| 10 | 18 lbs | 20 00 |

### No. 17 — Button's Pattern, Solid Cast Steel

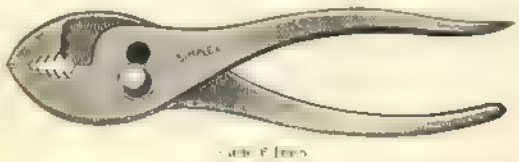
| Length, in. | 4½ | 6 | 8 | 10 |
|---|---|---|---|---|
| Cut Wire, Nos. | 12 | 11 | 8 | 6 |
| Weight per Doz., lbs. | 3½ | 6 | 10½ | 17 |
| Per Doz | $10 00 | 12 00 | 15 00 | 20 00 |

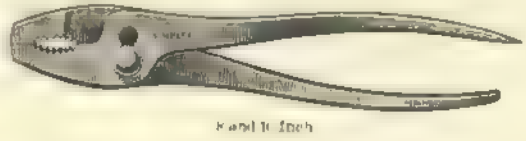
## COMBINATION

### Model "M" B. & S. Combination

Auto or Gas Pliers, Wire Cutters, Wrench and Screw Driver Combined  Drop Forged from best Tool Steel

| No. | | Per Doz |
|---|---|---|
| 1 | 6 in., Capacity from ½ to ¾-in. pipe, Weight Doz. 8 lbs | $12 50 |
| 2 | 8 in., Capacity from ¼ to ¾ in. pipe, Weight Doz. 10 lbs. | 16 00 |





### B. & S. Pattern Combination

Gas Pliers, Wire Cutter, Wrench and Screw Driver Combined  Drop Forged from best Tool Steel

| No. 7½—Size, in. | 5 | 6 | 8 | 10 |
|---|---|---|---|---|
| Weight Doz., lbs | 7 | 8 | 10 | 14 |
| Per Doz | $6 00 | 6 60 | 7 80 | 9 00 |

EACH IN A CARTON, ONE HALF DOZ IN A BOX

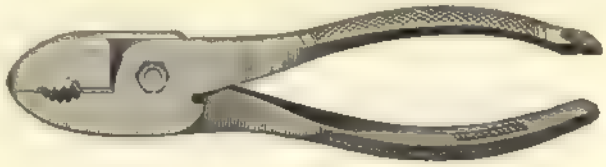
# PLIERS

## COMBINATION

**Victor Universal**

Forged from 60 Point Carbon Steel  Will grip taper, half round, three square or parallel pieces.

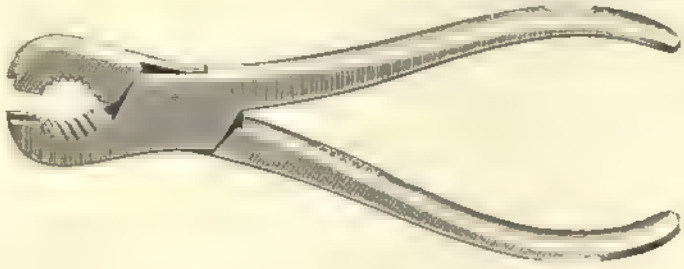
| No. | | Per Doz |
|---|---|---|
| 305 | Length 7 in. Nickel Plated, Knurled Handles, holds pipe $\frac{3}{8}$ to $1\frac{1}{4}$ in. Weight Doz., 9 lbs. | $9 00 |



**Combination Side Cutter, Burner and Auto**

| No. | | Per Doz |
|---|---|---|
| 1873 | 7 in. Nickel Plated, Drop Forged from best Tool Steel, Knurled Handles. Weight Doz., 8 lbs. | $9 00 |

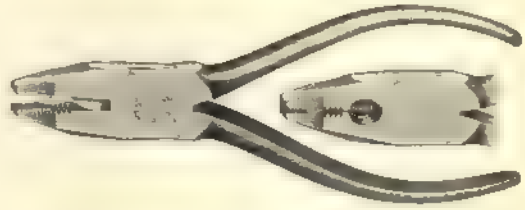
## BURNER AND GAS



**No. 8 — P. S. & W. Burner**

Solid Steel, Forged, Full Polished.

| Size In. | Weight Doz. | Per Doz. |
|---|---|---|
| 5 | $3\frac{1}{2}$ lbs. | $6 00 |
| 6 | $4\frac{1}{2}$ lbs. | 7 00 |



**No. 25 — Utica Combination Flat Nose and Burner**

Drop-Forged Steel, Utica Finish.

| Size In. | Weight Doz | Per Doz |
|---|---|---|
| $5\frac{1}{2}$ | 4 lbs. | $7 20 |

**No. 9 — P. S. & W. Gas**

Solid Steel, Forged

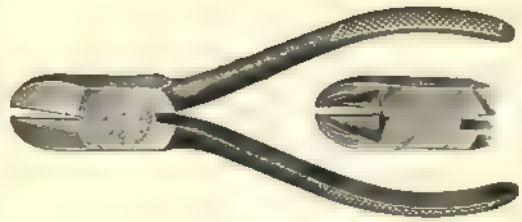
| Length, in | 8 | 10 | 12 |
|---|---|---|---|
| Weight per Doz., lbs. | 10 | $14\frac{1}{2}$ | 20 |
| Per Doz. | $9 25 | 12 50 | 14 50 |

ALL ABOVE ONE HALF DOZ IN A BOX

SEATTLE HARDWARE COMPANY

# PLIERS

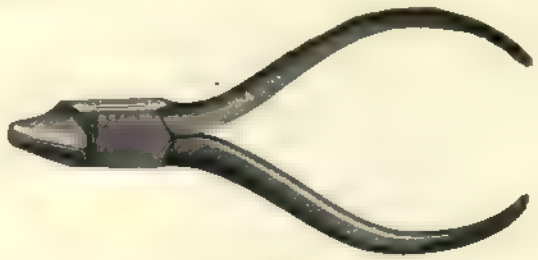
## DIAGONAL CUTTING



### No. 42—Diagonal Swedish Pattern

Drop Forged Steel, Utica Finish

| Length | Weight, Doz. | Per Doz |
|---|---|---|
| 4½ in | 3 lbs. | $ 9 60 |
| 5 in | 3½ lbs. | 10 80 |
| 5½ in | 4 lbs. | 12 00 |



### No. 82—Diagonal Cutting

Drop Forged, Extra Quality Steel, Polished Jaws

| Size, In. | Weight, Doz. | Per Doz. |
|---|---|---|
| 4½ | 3 lbs. | $15 00 |
| 5 | 4 lbs. | 16 00 |

# NIPPERS

## END CUTTING

### No. 60—Utica Bull Dog, End Cutting

Drop-Forged Steel, Utica Finish.

| Size, In. | Weight, Doz. | Per Doz. |
|---|---|---|
| 5 | 6 lbs. | $ 8 40 |
| 6 | 8 lbs. | 9 60 |
| 7 | 10 lbs. | 10 80 |
| 8 | 12 lbs. | 12 60 |

### No. 81—End Cutting

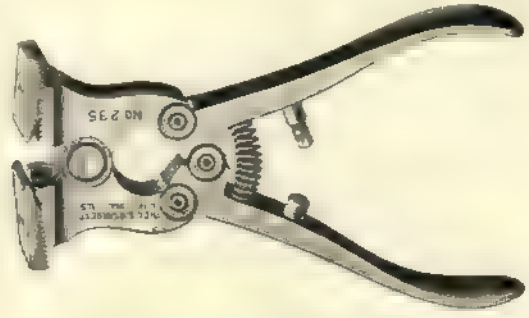
Drop Forged Steel, Extra Quality, Full Polished

| Size, In. | Weight, Doz. | Per Doz |
|---|---|---|
| 5 | 5 lbs. | $12 00 |
| 5½ | 7½ lbs. | 13 00 |
| 6 | 9 lbs. | 15 00 |

### No. 3 -Utica End Cutting

Compound Lever, Drop-Forged Steel, Adjustable Jaws.

| Size, In. | Weight, Doz. | Per Doz. |
|---|---|---|
| 5½ | 10 lbs. | $13 80 |
| 7½ | 12 lbs. | 17 40 |




Detachable and Adjustable Jaws.

### No. 235 -Tile Cut-Nippers

| Length | | Each |
|---|---|---|
| 5½T | -For Tile | $2 50 |
| 7T | -For Tile | 3 00 |

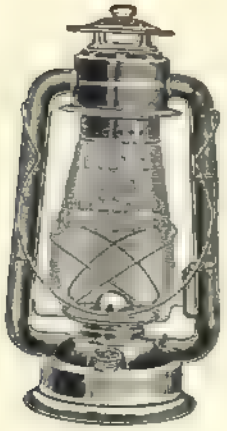
### No. 1 — Starrett Cut-Nippers

| | | |
|---|---|---|
| 5½M | —For Music Wire | 2 50 |
| 7M | —For Music Wire | 3 00 |
| Extra Jaws | | Per Pair, $0 50 |

ALL OF ABOVE ONE-HALF DOZEN IN A BOX

# LANTERNS

## DIETZ



### Blizzard—Cold Blast

Cold blast tubular, reinforced tubes, globe lift inside of frame, No. 2 tinned steel coneless burner, 1 in wick, No. 2 cold blast globe. Holds oil to burn 18 hrs., 16 candle power.

**No. 352TF** Tin Fount ..... .....Per Dozen, $15 75
**No. 352BF** Brass Fount..... ..... " 22 50

ONE-HALF DOZEN IN A CASE. WEIGHT PER DOZEN, 50 LBS.

### Special Blizzard—Cold Blast

Cold blast tubular, reinforced tubes, globe lift inside of frame, No 2 tinned steel coneless burners, 1 in wick, No 2 cold blast globe. Holds oil to burn 40 hrs., 10 candle power.

**No. 312B**—Extra Large Fount.....Per Dozen, $18 00

ONE-HALF DOZEN IN A CASE. WEIGHT PER DOZEN, 54 LBS.

### D-Lite

Tubular, tilt opening, No. 2 retinned steel coneless burner, 1-in. wick, D Lite globe. Holds oil to burn 24 hrs., 10-candle power.

**No. 362TF**—Tin Fount.. . . Per Dozen, $18 75
**No. 362BF**—Brass Fount..... " 25 50

ONE-HALF DOZEN IN A CASE. WEIGHT PER CASE 34 LBS.

### Junior Side

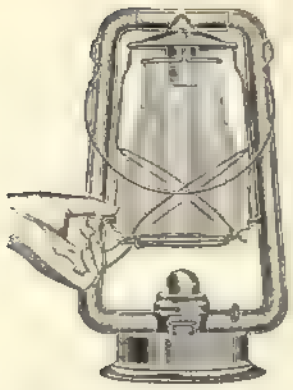
Tubular, globe lift inside of frame, corrugated tin reflector, bullseye lens with 2¼ in ruby rear lens, No 1 tinned steel burner, ⅝-in wick, Junior globe. Holds oil to burn 12 hrs. Black enameled finish

**No. 3418**.....Per Dozen, $18 00

ONE DOZEN IN A CASE WEIGHT PER DOZEN, 53 LBS

# LANTERNS

## DIETZ



### Dietz Hy-Lo—Hot Blast

Hot blast, square tube, No. 1 tinned steel burner, ⅝-in. wick, No. 0 globe. Holds oil to burn 18 hrs., 4-candle power.

**No. 210** .....Per Dozen, $8 25

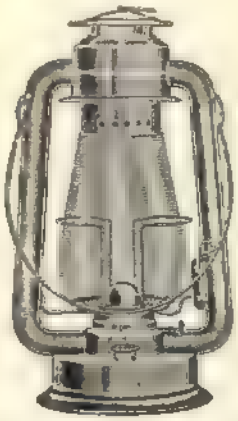
ONE DOZEN IN A CASE, WEIGHT 38 LBS

### Dietz Monarch—Hot Blast

Hot blast round tube, No. 1 tinned steel burner, ⅝-in. wick, No. 0 globe. Holds oil to burn 18 hrs., 4 candle power.

**No. 220W**—White Globe . . . . . Per Dozen, $ 9 75
**No. 230R**—Ruby Globe. . . . . " 12 50

ONE DOZEN IN A CASE WEIGHT 40 LBS



### Dietz Crescent—Cold Blast

Cold blast tubular, No. 2 tinned steel burner, 1-in. wick, No. 2 globe. Holds oil to burn 18 hrs., 10 candle power.

**No. 322** .....Per Dozen, $13 25

ONE-HALF DOZEN IN A CASE WEIGHT 22 LBS

### Dietz Wizard—Cold Blast Tubular

No 2 tinned steel coneless burner, 1 in. wick, D Lite globe, holds oil to burn 13 hrs., 10-candle power.

**No. 332**—Tin Fount . . . . . Per Dozen, $17 25

ONE DOZEN IN A CASE WEIGHT 40 LBS

### Dietz Junior—Cold Blast

Cold blast tubular, No. 1 tinned burner, ⅝-in. wick, Junior globe. Holds oil to burn 13 hrs., 6-candle power.

**No. 341T**—Bright Tin . . . . . Per Dozen, $12 75
**No. 341B**—Brass . . . . . " 22 50

ONE DOZEN IN A CASE, WEIGHT 32 LBS.

SEATTLE HARDWARE COMPANY

# LAMPS

## STATION AND MILL

### Imperial Square Lamp

Cold blast, blue japanned, No. 3 burner, 8-in. reflector, 1½ in. wick Holds oil to burn 17 hrs., 100-candle power.

| No. | Height | Width | Depth | Each |
|---|---|---|---|---|
| 22 | 21½ in. | 9⅝ in. | 10½ in. | $11 25 |

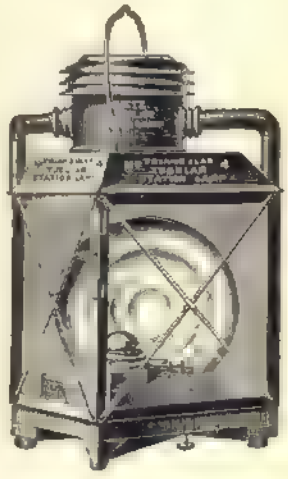
WEIGHT EACH 21 LBS

### Climax Station Lamp

Blue japanned, No. 2 burner, No. 2 chimney, 1-in. wick, 8-in. reflector. Holds oil to burn 23 hrs.; adapted to indoor and outdoor use.

| No. | Height | Width | Depth | Price |
|---|---|---|---|---|
| 32 | 17½ in. | 10¼ in. | 8¾ in. | $5 25 |
| 33 — | 20 in. | 11½ in. | 10½ in | 6 00 |

WEIGHT EACH, 25 LBS



### Triangular Tubular Lamp

Blue japanned, No 3 burner, 1¾-in. wick, 10-in. reflector

| No. | Height | Width | Depth | Each |
|---|---|---|---|---|
| 44 — | 22 in. | 16 in. | 13 in.. | $8 50 |

WEIGHT EACH 30 LBS

### Pioneer Hanging Lamp

Tubular, painted green, No. 3 burner, 1½ in. wick, No. 3 globe. Holds oil to burn 24 hrs., 22 candle power. Height 21½ in

No. 53 . . . . . Each, $8 25

ONE IN A CASE WEIGHT 24 LBS

### Pioneer Street Lamp

Tubular, painted green, No. 3 burner, 1½ in. wick, No. 3 globe. Holds oil to burn 24 hrs., 22-candle power. Height 24½ in

No. 63 . . . . . Each, $7 50

ONE IN A CASE WEIGHT, 25 LBS

# NEVEROUT LAMPS

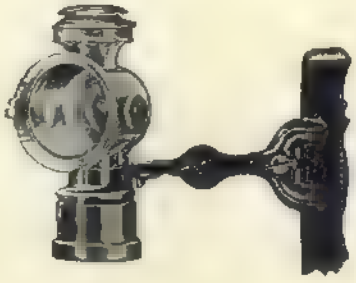
BICYCLE

No. 7743

MOTORCYCLE

No. 6610

CARRIAGE DASH



No. 55111

### Bicycle Lamps

Has patent insulated kerosene reservoir, making it absolutely safe. Height 6½ in. Weight 12½ ozs.

| No. | | Each |
|---|---|---|
| **GM7743** | Gun metal Finish, Complete with Nos. 3 and 4 Bracket | $6 00 |
| **NP7743** | Nickel plated Finish, Complete with Nos. 3 and 4 Bracket | 6 00 |

### Motorcycle Lamps

Burns kerosene oil ten hours with one filling; shows red rear danger signal. Height 6½ in. Weight 12½ ozs.

| No. | | Each |
|---|---|---|
| **GM6610** | Gun metal Finish, Complete with No. 66 Japanned Motorcycle Brackett | $6 00 |
| **NP6610** | Nickel plated Finish, Complete with No. 66 Japanned Motorcycle Bracket | 6 00 |

### Carriage Dash Lamps

Burns kerosene oil, capacity, twenty hours. Extra large red side and rear lights. Height, including handle, 9¼ in. Diameter of face, 4⅜ in. Weight, 22 ozs.

| No. | | Each |
|---|---|---|
| **GM55111** | Gun metal Finish, Complete with No. 111 Japanned Universal Dash Bracket | $6 00 |
| **NP55111** | Nickel-plated Finish, Complete with No. 111 Japanned Universal Dash Bracket | 6 00 |

*EACH IN A BOX*

## CARRIAGE OR WAGON DRIVING LAMPS

No. 44 Lamp

No. 46 Bracket

No. 47 Bracket

No. 53 Bracket

### With No. 46 Dash Bracket

Has a universal clamp which can be attached to practically any projection on a wagon or carriage. Bolts made of steel.

| No. | | Each |
|---|---|---|
| **GM4446R** | Gun-metal Finish, Right Hand | $6 50 |
| **GM4446L** | Gun-metal Finish, Left Hand | 6 50 |
| **NP4446R** | Nickel-plated Finish, Right Hand | 6 50 |
| **NP4446L** | Nickel-plated Finish, Left Hand | 6 50 |
| **PB4446R** | Polished Brass Finish, Right Hand | 6 25 |
| **PB4446L** | Polished Brass Finish, Left Hand | 6 25 |

### With No. 47 Rail Bracket

Fastens to the horizontal bow or rail on side of top or seat.

| No. | | Each |
|---|---|---|
| **GM4447R** | Gun metal Finish, Right Hand | $6 50 |
| **GM4447L** | Gun-metal Finish, Left Hand | 6 50 |
| **NP4447R** | Nickel-plated Finish, Right Hand | 6 50 |
| **NP4447L** | Nickel-plated Finish, Left Hand | 6 50 |
| **PB4447R** | Polished Brass Finish, Right Hand | 6 25 |
| **PB4447L** | Polished Brass Finish, Left Hand | 6 25 |

### With No. 53 Panel Bracket

Useful principally on wagons, where it is attached by screws to the side.

| No. | | Each |
|---|---|---|
| **GM4453R** | Gun-metal Finish, Right Hand | $6 50 |
| **GM4453L** | Gun-metal Finish, Left Hand | 6 50 |
| **NP4453R** | Nickel-plated Finish, Right Hand | 6 50 |
| **NP4453L** | Nickel-plated Finish, Left Hand | 6 50 |
| **PB4453R** | Polished Brass Finish, Right Hand | 6 25 |
| **PB4453L** | Polished Brass Finish, Left Hand | 6 25 |

*EACH IN A BOX. WEIGHT OF LAMP 1¾ LBS*

# LANTERNS

**Dietz Conductor's**

Brass, nickel plated, No. 1 ratchet burner, $^{3}/_{8}$ in wick, No. 3W globe.

**No. 3**—Weight, per doz., 27 lbs.....Per Dozen, $111 00

**Casey Railroad**

Steel frame; wick raised and lowered by turning oil cup, which operates the ratchet.

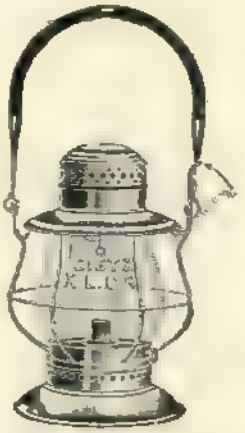
**Casey**—Weight per doz., 33 lbs. .....Per Dozen, $20 00

**Dietz Steel Clad, Railroad**

With ratchet burner for lard oil, or convex burner for kerosene

**Steel Clad**.. . . . . Per Dozen, $22 50

ONE DOZEN IN A CASE WEIGHT 47 LBS



**Dietz X.L.C.R. Switchman's**

Insulated bail, No 2 burner, 1 in wick Holds oil to burn 24 hrs., 2 candle power

**X.L.C.R.** Weight per doz., 24 lbs. .Per Dozen, $30 00

**Boy's U. S.**

Tin, lacquered, assorted colors. No 1 burner, $^{5}/_{8}$ in wick, U S. globe Holds oil to burn 14 hrs.

**U.S.** .....Per Dozen, $7 00

TWO DOZEN IN A CASE WEIGHT, 41 LBS

**Dietz Octo Driving**

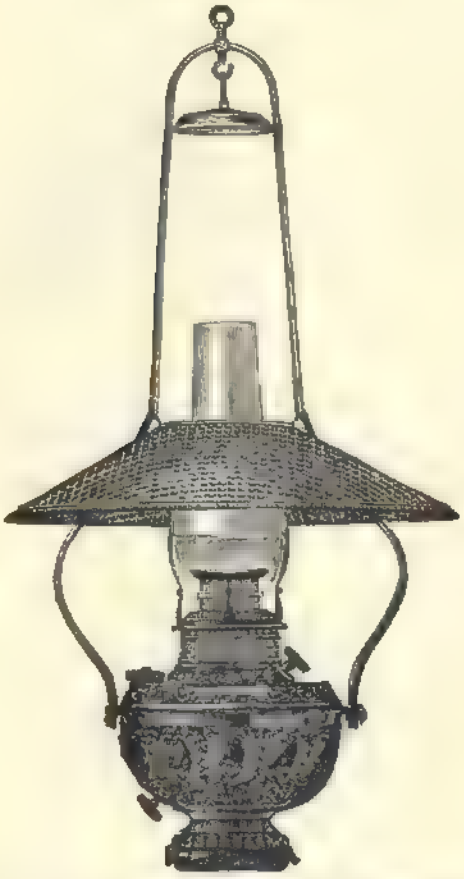
Steel, black enameled with brass door ring, optical lens, ruby rear lens. Holds oil to burn 10 hrs., 70-candle power.

**Octo**. . . . . .Per Dozen, $63 00

ONE IN A CARTON WEIGHT 3½ LBS

# LAMPS

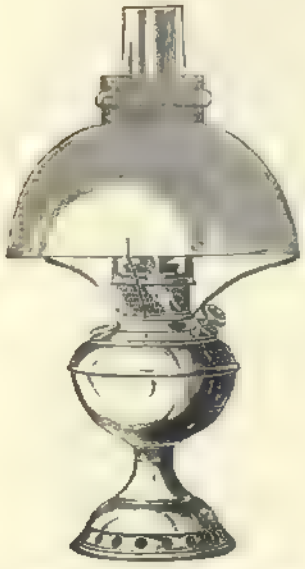
## HANGING LAMP



Solid Brass, Nickel Plated, 400 Candle Power

**No. 10 Mammoth** Complete with 20 in. Tin Corrugated Reflector, No 3 Rochester Burner, No 3 Rochester Chimney, No 3 Rochester Wick, Height of Fount to Top of Burner 10¾ in., Capacity 1 Gallon ..... Each, $6 00

## ROCHESTER, STAND



Solid Brass, Heavily Nickel Plated

**No. 6** Height to Top of Chimney, 18 in. Complete with No 2 Rochester Burner, No. 2 Rochseter Chimney, No 2 Rochester Wick, 10 in Porcelain Dome Shade, Capacity of Fount 1 Quart ..... Each, $3 50

## GLASS LAMPS

Glass Hand Lamps

| No. | | Per Doz. |
|---|---|---|
| **12HD**— | Complete with Chimney, No. 1 Burner and Wick ..... | $6 00 |

SEVEN DOZEN IN A BARREL

Glass Stand Lamps

| No. | | Per Doz. |
|---|---|---|
| **198T**— | Complete with Chimney, No. 2 Burner and Wick..... | $10 00 |

2¾ DOZ IN A BARREL.

## HAND OR WALL LAMP

Dietz "Bestov"

Made of Tin, No. 1 Burner, Tin Fount with Wall Bracket.

**Per Dozen.** ..... $10 50

ONE DOZEN IN A CASE

# LAMPS

## IRON HAND

**Malleable, Coppered**

**No. 5**—No. 1 Two Tube Lard Oil Burner. Weight per Dozen, 11 lbs. . . . . Per Dozen, $7 50

## STEEL HAND

**Copperized**

**No. 22**—1 Pint, 3¼ in. Diameter. Weight per Dozen, 12 lbs. . . . . Per Dozen, $9 00

**No. 23**—1½ Pint, 4 in. Diameter. Weight per Dozen, 15 lbs. . . . . Per Dozen, 12 00

ONE-HALF DOZEN IN A BOX

SEATTLE HARDWARE COMPANY

## BRACKET OR KITCHEN

**Tin Fount and Reflector**

**No. 1**—No. 2 Sun Burner and Chimney, 1 in. Wick. Weight per Dozen, 28 lbs. . . . Per Dozen, $7 50

**Glass Fount, Steel Frame, Tin Reflector**

**No. 3**—No. 2 Sun Burner and Chimney, 1 in. Wick. Weight per Dozen, 35 lbs. Per Dozen, $7 50

ONE DOZEN IN A CASE

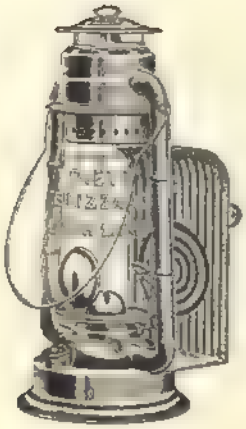
**Glass Fount, French Bronze, Iron Frame, Silvered Glass Reflector.**

**No. 10**—No. 2 Sun Burner and Chimney, 1 in. Wick, 8 in. Reflector. Weight per Dozen, 90 lbs. . Per Dozen, $15 00

ONE-HALF DOZEN IN A CASE

# LANTERNS

## DIETZ



### Blizzard Dash

Cold blast, reinforced tubes, globe lift inside of frame, tinned steel burner. No. 2 cold blast globe with bullseye lens, dash clip spring. Holds oil to burn 20 hrs., 10-candle power. Enameled.

**No. 352D**—No. 2 Burner, 1-in. Wick....Per Dozen, $24 00

ONE HALF DOZEN IN A CASE, WEIGHT 37 LBS

### Buckeye Dash

Square tubular, globe lift, No. 1 tinned steel burner, $^{5}/_{8}$-in. wick, No. 2 cold blast globe with bullseye lens, dash clip spring. Holds oil to burn 19 hrs., 10-candle power. Black enameled.

**No. 372** . . . . . Per Dozen, $15 00

### Special Buckeye Dash

Same description as above but has a $2^{1}/_{4}$ in. rear ruby lens danger signal

**No. 372S.** . . . . . Per Dozen, $18 00

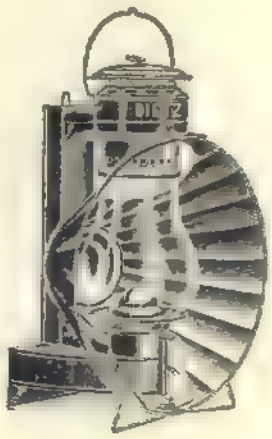
ONE HALF DOZEN IN A CASE WEIGHT 28 LBS

### Beacon Dash

Square tubular, with bright tin hood, 5-in. spun metal polished reflector, dash clip spring, top lift, No. 1 burner, $^{5}/_{8}$ in. wick, No. 2 cold blast globe. Holds oil to burn 20 hrs., 7-candle power.

**No. 382** . . . . . Per Dozen, $31 50

ONE HALF DOZEN IN A CASE WEIGHT, 32½ LBS



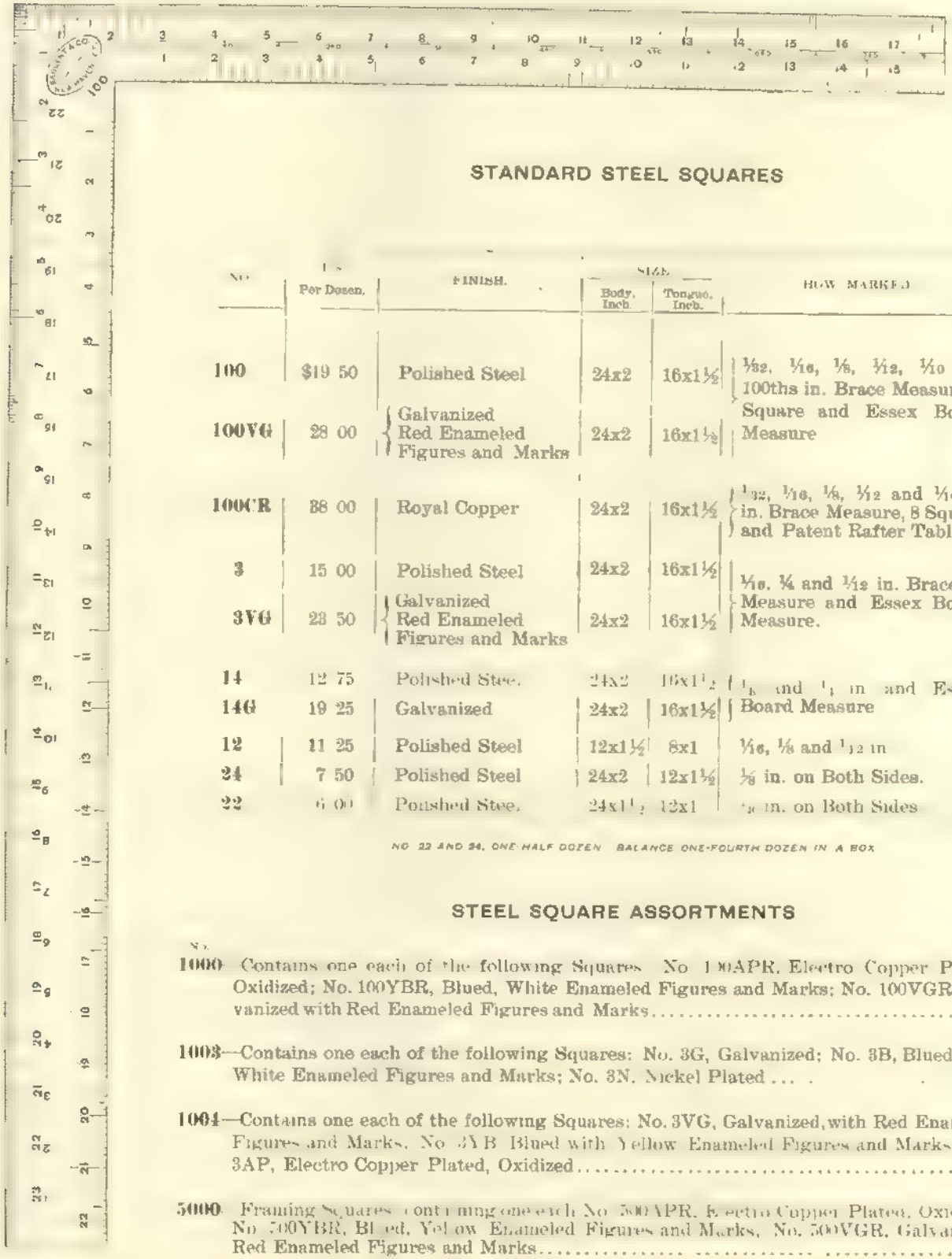
### Beacon Lights

**No. 30BL**—Blue Japanned, Height 15¼ in., 50 candle power, No. 3 Steel Burner, 1-in. wick. Weight per doz., 104 lbs.....Per Dozen, $45 00

**No. 60BL**—Blue Japanned, Height 20½ in., 100-candle power, No. 3 Steel Burner, 1-in. Wick. Weight per doz., 288 lbs..... Per Dozen, 108 00

NO. 30, ONE HALF DOZEN IN A CASE WEIGHT 47 LBS
NO. 60, ONE-TWELFTH DOZEN IN A CASE, WEIGHT 24½ LBS

# STEEL SQUARES



## STANDARD STEEL SQUARES

| No. | Per Dozen. | Finish. | Size Body, Inch. | Size Tongue, Inch. | How Marked | Weight per Dozen Lbs. |
|---|---|---|---|---|---|---|
| 100 | $19 50 | Polished Steel | 24x2 | 16x1½ | 1/32, 1/16, 1/8, 1/12, 1/10 and 100ths in. Brace Measure, 8 Square and Essex Board Measure | 31 |
| 100VG | 28 00 | Galvanized Red Enameled Figures and Marks | 24x2 | 16x1½ | | |
| 100CR | 38 00 | Royal Copper | 24x2 | 16x1½ | 1/32, 1/16, 1/8, 1/12 and 1/10 in. Brace Measure, 8 Square and Patent Rafter Table. | 31 |
| 3 | 15 00 | Polished Steel | 24x2 | 16x1½ | 1/16, 1/4 and 1/12 in. Brace Measure and Essex Board Measure. | 30 |
| 3VG | 23 50 | Galvanized Red Enameled Figures and Marks | 24x2 | 16x1½ | | |
| 14 | 12 75 | Polished Steel | 24x2 | 16x1½ | 1/8 and 1/4 in and Essex Board Measure | 30 |
| 14G | 19 25 | Galvanized | 24x2 | 16x1½ | | |
| 12 | 11 25 | Polished Steel | 12x1½ | 8x1 | 1/16, 1/8 and 1/12 in | 9 |
| 24 | 7 50 | Polished Steel | 24x2 | 12x1½ | 1/8 in. on Both Sides. | 27 |
| 22 | 6 00 | Polished Steel | 24x1½ | 12x1 | 1/8 in. on Both Sides | 17 |

NO. 22 AND 24, ONE-HALF DOZEN. BALANCE ONE-FOURTH DOZEN IN A BOX

## STEEL SQUARE ASSORTMENTS

| No. | | Per Assortment: |
|---|---|---|
| 1000 | Contains one each of the following Squares: No. 100APR, Electro Copper Plated, Oxidized; No. 100YBR, Blued, White Enameled Figures and Marks; No. 100VGR, Galvanized with Red Enameled Figures and Marks | $7 70 |
| 1003 | Contains one each of the following Squares: No. 3G, Galvanized; No. 3B, Blued, with White Enameled Figures and Marks; No. 3N, Nickel Plated | 6 00 |
| 1004 | Contains one each of the following Squares: No. 3VG, Galvanized, with Red Enameled Figures and Marks, No. 3YB Blued with Yellow Enameled Figures and Marks; No. 3AP, Electro Copper Plated, Oxidized | 6 00 |
| 5000 | Framing Squares containing one each No. 500APR, Electro Copper Plated, Oxidized, No. 500YBR, Blued, Yellow Enameled Figures and Marks, No. 500VGR, Galvanized, Red Enameled Figures and Marks | 18 50 |

PACKED ONE ASSORTMENT SQUARES IN A BOX. WEIGHT PER BOX 7½ POUNDS

SEATTLE HARDWARE COMPANY

# TRY SQUARES

## STANLEY

### No. 20 – Rosewood Handle

Blued Steel Blade, Brass-Faced Handle, Graduated in ⅛ in

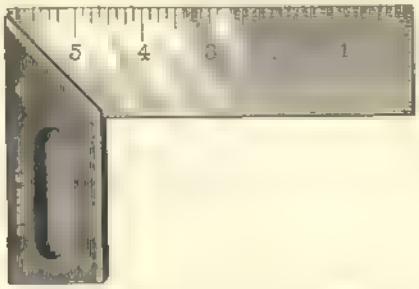
| Length | Weight, Doz. | Per Dozen |
|---|---|---|
| 4½ in. Blade | 3½ lbs. | $2 70 |
| 6 in. Blade | 5 lbs. | 3 60 |
| 7½ in. Blade | 7 lbs. | 4 15 |
| 9 in. Blade | 8 lbs. | 5 10 |
| 12 in. Blade | 11 lbs. | 6 70 |

ONE HALF DOZEN IN A BOX

### No 12 Iron Handle

Full Nickel-Plated, Blades Graduated in ⅛ in.

| Length | Weight, Doz. | Per Dozen |
|---|---|---|
| 6 in. Blade | 6 lbs. | $3 95 |
| 8 in. Blade | 9 lbs. | 5 90 |



### No. 2—Combined Try and Miter

Rosewood Handle. Blued Steel Blade, Graduated in ⅛ in.

| Length | Weight, Doz. | Per Dozen |
|---|---|---|
| 6 in. Blade | 6 lbs. | $6 00 |
| 7½ in. Blade | 7 lbs. | 7 20 |

ONE-HALF DOZEN IN A BOX

### No. 15—Miter Try

Nickel-Plated Blade and Handle, Graduated in ⅛ in.

| Length | Weight, Doz. | Per Dozen |
|---|---|---|
| 7½ in. Blade | 9 lbs. | $9 90 |

## SLIDING T BEVELS

### No. 25—Rosewood Handle

Lever Adjustment, Blued Steel Blade.

| Length | Weight, Doz. | Per Dozen |
|---|---|---|
| 6 in. Blade | 3 lbs. | $3 95 |
| 8 in. Blade | 4 lbs. | 4 30 |
| 10 in. Blade | 5 lbs. | 4 65 |
| 12 in. Blade | 6 lbs. | 5 00 |

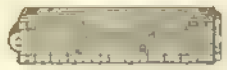
ONE HALF DOZEN IN A BOX

### No. 18—Metal Handle

Hardened Steel Blade, both Blade and Handle Nickel Plated.

| Length | Weight, Doz. | Per Dozen |
|---|---|---|
| 6 in. Blade | 6 lbs. | $6 60 |
| 8 in. Blade | 7½ lbs. | 8 40 |

# BOXWOOD RULES



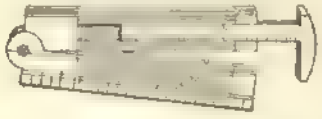
### One Foot, Four Fold, 5/8 in. Wide

| No. | | Per Dozen |
|---|---|---|
| 69 | Round Joint, Middle Plates. 8ths and 16ths. 5/8 in. wide | $1 75 |

ONE DOZEN IN A BOX

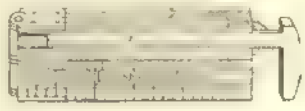
### One Foot, Four Fold, 5/8 in. Wide

| No. | | Per Dozen |
|---|---|---|
| 64 | Square Joint, Edge Plates. 8ths and 16ths. 5/8 in. wide | $2 75 |



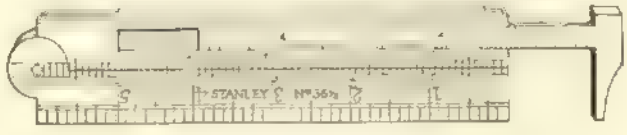
### Six Inch, Two-Fold Caliper

| No. | | Per Dozen |
|---|---|---|
| 36 | Square Joint. 8, 10, 12 and 16ths. 7/8 in. wide. | $4 50 |



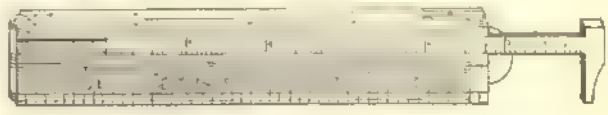
### One Foot, Four-Fold Caliper

| No. | | Per Dozen |
|---|---|---|
| 3 | Square Joint, Full Bound. 8ths and 16ths. 5/8 in. wide | $12 00 |
| 32 | —Arch Joint, Edge Plates. 8, 10, 12 and 16ths. 1 in. wide | 7 00 |
| 32½ | —Arch Joint, Full Bound. 8, 10, 12 and 16ths, 1 in. wide | 10 00 |




### One Foot, Two-Fold, Caliper

| No. | | Per Dozen |
|---|---|---|
| 36½ | Square Joint. 8, 10, 12 and 16ths, 1 1/8 in. wide | $6 50 |

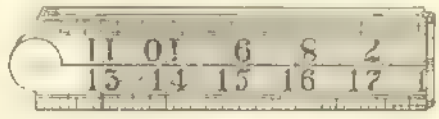


### Two Foot, Four-Fold Caliper

| No. | | Per Dozen |
|---|---|---|
| 83C | Arch Joint, Edge Plates. 8, 10, 12 and 16ths, 1 3/8 in. wide | $12 00 |

### Two Foot, Fwo-Fold

| No. | | Per Dozen |
|---|---|---|
| 18 | Extension Slide, Square Joint. 8ths and 16ths, and Octagon Scale, 1 1/2 in. wide | $4 00 |
| 1 | —Arch Joint, Bitted. 8 and 16ths and Octagon Scale, 1 1/4 in. wide | 4 50 |

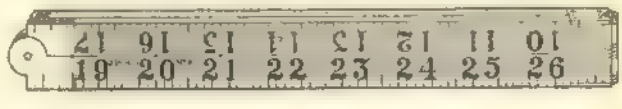



### Blind Man's, Two Foot, Four-Fold

| No. | | Per Dozen |
|---|---|---|
| 7 | Square Joints, Edge Plates, 8ths and 16ths. | $11 00 |

### Three Foot, Four-Fold, 1 in. Wide

| No. | | Per Dozen |
|---|---|---|
| 66½ | Arch Joint, Middle Plates. 8ths and 16ths | $ 6 00 |
| 66½ | —Arch Joint, Full Bound, 8ths and 16ths | 15 00 |



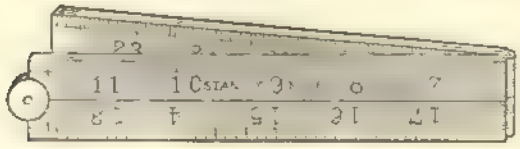

### Three Foot, Four-Fold, 1 in. Wide

| No. | | Per Dozen |
|---|---|---|
| 8 | Square Joint, Edge Plates. 8ths and 16ths | $12 00 |

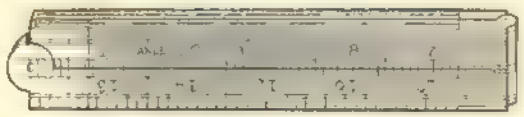
ALL ABOVE ONE-HALF DOZEN IN A BOX

SEATTLE HARDWARE COMPANY

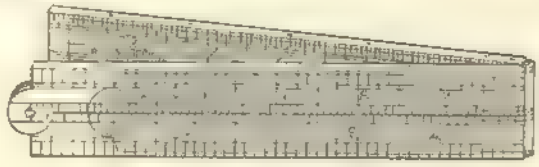
# BOXWOOD RULES



Cut Shows No. 68 Round Joint



Cut Shows Square Joint



Cut Shows No. 53, Arch Joint

### Two Foot, Four-Fold, ¾ in. Wide

| No. | | Per Dozen |
|---|---|---|
| 62½ | Square Joint, Full Bound. 8, 10, 12 and 16ths | $8 00 |

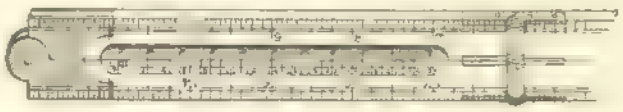
### Two Foot, Four-Fold, 1 in. Wide

| No. | | Per Dozen |
|---|---|---|
| 68 | Round Joint, Middle Plates, 8 and 16ths | $2 50 |
| 61 | Square Joint, Middle Plates, 8 and 16ths | 3 00 |
| 84 | Square Joint, Half Bound, 8, 10, 12 and 16ths | 6 50 |
| 62 | Square Joint, Full Bound, 8, 10, 12 and 16ths | 8 00 |
| 53 | —Arch Joint, Edge Plates, 8, 10, 12 and 16ths and Drafting Scales | 4 50 |
| 52 | Arch Joint, Half Bound, 8, 10, 12 and 16ths and Drafting Scales | 7 25 |
| 54 | Arch Joint, Full Bound, 8, 10, 12 and 16ths and Drafting Scales | 8 75 |

### Two Foot, Four-Fold, 1¼ in. Wide

| No. | | Per Dozen |
|---|---|---|
| 70 | Square Joint, Edge Plates, 8 and 16ths and Drafting Scales | $ 4 00 |
| 72½ | Square Joint, Full Bound, 8, 10 and 16ths and Drafting Scales | 9 00 |
| 76 | Arch Joint, Full Bound, 8, 10 and 16ths and Drafting Scales | 10 00 |
| 82 | Arch Joint, Full Bound, 12 and 16ths, Drafting Scales and Board Measure | 12 00 |
| 78½ | Double Arch Joint, Full Bound, 8, 10 and 16ths and Drafting Scales | 12 00 |

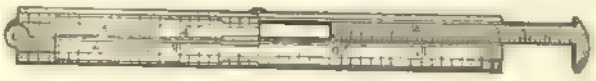
ALL ONE-HALF DOZEN IN A BOX (EXCEPT NO. 68, ONE DOZEN) WEIGHT 1½ TO 3 LBS PER DOZEN



### Architects', Two Foot, Four-Fold, 1 in. wide, Beveled Edge Inside

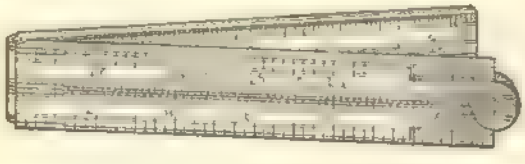
| No. | | Per Dozen |
|---|---|---|
| 53½ | —Arch Joint, Edge Plates, 8, 10, 12 and 16ths and Drafting Scales | $8 00 |

# IVORY RULES



### One Foot, Four-Fold, ⅜ in. Wide

| No. | | Per Dozen |
|---|---|---|
| 40 | —Square Joint, Full Bound, 8ths and 16ths | $44 00 |



### Two Foot, Four-Fold, 1 in. Wide

| No. | | Per Dozen |
|---|---|---|
| 87 | Arch Joint, Full Bound, 8, 10, 12 and 16ths and Drafting Scales | $80 00 |

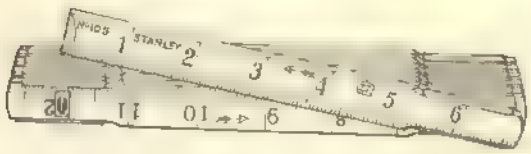
### Architects', Bevel Edge Inside, Two Foot, Four-Fold

| No. | | Per Dozen |
|---|---|---|
| 86½ | Arch Joint, Edge Plates, 8, 10, 12 and 16ths and Drafting Scales, 1 in. Wide | $96 00 |

ABOVE ONE-HALF DOZEN IN A BOX

# RULES

## STANLEY ZIGZAG

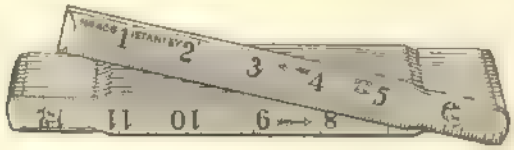


### 6-in. Folds, Yellow Enamel, Concealed Joints, $\frac{1}{8}$ in. Wide

| No. | Length | Weight, Doz. | Per Doz. |
|---|---|---|---|
| 03 | 3 ft. | 1½ lbs. | $3 30 |
| 04 | 4 ft. | 2 lbs. | 4 40 |
| 05 | 5 ft. | 2¾ lbs. | 5 50 |
| 06 | 6 ft. | 3⅓ lbs. | 6 60 |
| 08 | 8 ft. | 4¼ lbs. | 8 80 |

### 6-in. Folds, White Enamel, Concealed Joints, $\frac{5}{8}$ in. Wide

| No. | Length | Weight, Doz. | Per Doz. |
|---|---|---|---|
| 104 | 4 ft. | 2 lbs. | $4 80 |
| 105 | 5 ft. | 2¾ lbs. | 6 00 |
| 106 | 6 ft. | 3⅓ lbs. | 7 20 |



### 6-in. Folds, Yellow Enamel, Rivet Joints, $\frac{3}{8}$ in. Wide

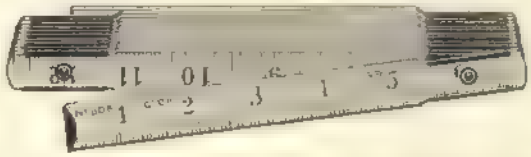
| No. | Length | Weight, Doz. | Per Doz. |
|---|---|---|---|
| 403 | 3 ft. | 1½ lbs. | $3 00 |
| 404 | 4 ft. | 2 lbs. | 4 00 |
| 405 | 5 ft. | 2½ lbs. | 5 00 |
| 406 | 6 ft. | 3⅓ lbs. | 6 00 |

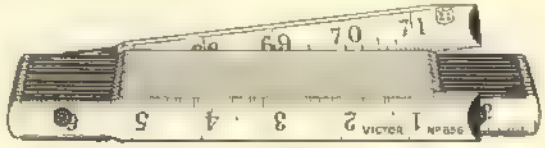
ONE HALF DOZEN IN A BOX

### 9-in. Folds, Yellow Enamel, Rivet Joints, $\frac{3}{8}$ in. Wide

| No. | Length | Weight, Doz. | Per Doz. |
|---|---|---|---|
| 493 | 3 ft. | 1½ lbs. | $3 00 |
| 496 | 6 ft. | 3 lbs. | 6 00 |

## VICTOR ZIGZAG





No 856

### 6-in. Folds, Yellow Enamel, Rivet Joints, $\frac{3}{8}$ in. Wide

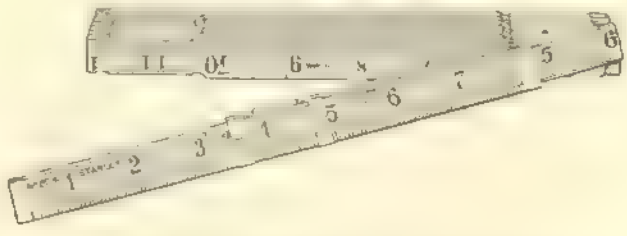
| No. | Length | Weight, Doz. | Per Doz. |
|---|---|---|---|
| 803 | 3 ft. | 1⅜ lbs. | $2 70 |
| 804 | 4 ft. | 1¾ lbs. | 3 60 |
| 805 | 5 ft. | 2¼ lbs. | 4 50 |
| 806 | 6 ft. | 2⅞ lbs. | 5 40 |

ONE DOZEN IN A BOX

### 6-in. Folds, White Enamel, Rivet Joints, $\frac{5}{8}$ in. Wide

| No. | Length | Weight, Doz. | Per Doz. |
|---|---|---|---|
| 854 | 4 ft. | 1¾ lbs. | $3 96 |
| 855 | 5 ft. | 2¼ lbs. | 4 92 |
| 856 | 6 ft. | 2⅞ lbs. | 6 00 |

## STANLEY EXTENSION ZIGZAG



### 6-in. Folds, Yellow Enamel, Concealed Joints

| No. | | Per Doz. |
|---|---|---|
| 204 | —4 feet long, with 6-in. extension. Weight Doz., 3 lbs. | $7 70 |
| 206 | —6 feet long, with 6-in. extension. Weight Doz., 4 lbs. | 9 90 |

ONE-HALF DOZ IN A BOX

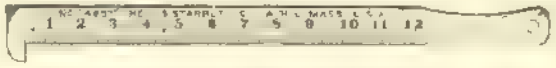
SEATTLE HARDWARE COMPANY

# RULES

## BLACKSMITHS'

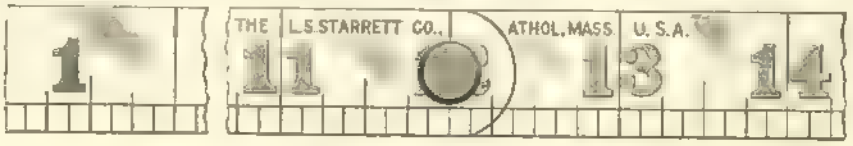
### Stanley, Spring Brass

| No. | | Per Doz. |
|---|---|---|
| 17 | —2 Foot, Two-Fold, $\frac{5}{8}$ in. Wide Graduated in 8ths and 16ths, with Rigid Spring Joint | $6 00 |



### Starrett's Blacksmith's, With Hook and Handle

| No. | | Each |
|---|---|---|
| 465 | Hard-Rolled Sheet Brass, $\frac{1}{10}$ in thick, $1\frac{1}{16}$ in wide Graduated in 16ths to the end on one side and 16ths from under hook on the other Graduated 12 in measurement over all, with flat handle $16\frac{3}{4}$ in. | $1 15 |




### Starrett's Folding, With Stop Joint

| No. | | Per Doz. |
|---|---|---|
| 461 | 2 Foot, Two-Fold, $\frac{3}{4}$ in wide. Graduated in 8ths and 16ths, Spring Tempered Steel. | $9 00 |

### Lufkin Steel Folding

Tempered Steel, $\frac{3}{4}$ in. wide, 20 gauge. Graduated one end and both sides.

| No. | | Per Doz |
|---|---|---|
| 85 | —2 Foot, Two-Fold, Stop Joint, Plain Ends, 8ths and 16ths | $12 00 |
| 86T | —2 Foot, Two-Fold, Stop Joint, Brass Tipped Ends, 16ths and Circumference Inches | 16 00 |

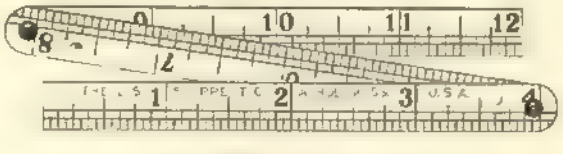
### Lufkin Brass Folding

Hard Brass, $\frac{3}{4}$ in. wide, 19 gauge. Graduated one end and both sides.

| No. | | Per Doz. |
|---|---|---|
| 1086 | —2 Foot, Two-Fold, Stop Joint, 16ths and Circumference Inches | $15 00 |

ALL ABOVE ONE-HALF DOZEN IN A BOX

## POCKET



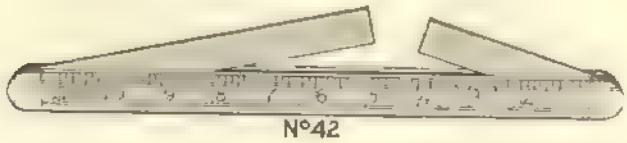
### No. 450—Starrett's

| Length | | Per Doz |
|---|---|---|
| 12 in. | 3 Folds, $\frac{1}{16}$-in. Flexible Tempered Spring Steel, 4-in Joints | $3 30 |
| 24 in | —4 Folds, $\frac{1}{8}$-in Flexible Tempered Spring Steel, 6 in. Joints | 6 00 |

EACH IN A METAL-BOUND LEATHER CASE ONE DOZEN IN A BOX

# RULES

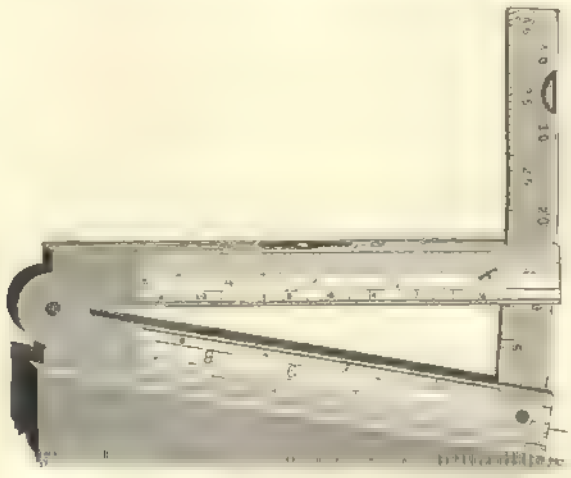
## SHIP CARPENTERS' BEVELS



No. 42

| No. | | Per Doz. |
|---|---|---|
| 42 | Double Tongue, Boxwood, 8ths and 16ths | $4 00 |

## STEVENS PATENT COMBINATION

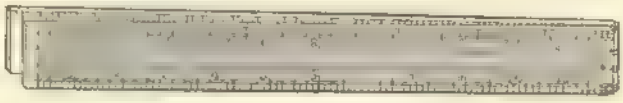


Combined Square, Plumb, Bevel, Inclinometer or Slope Level, T Square, Brace and Drafting Square.

**Stevens Combination** One Foot, Two-Fold, Bound . . . . . Per Dozen, $40 00

ABOVE ONE HALF DOZEN IN A BOX

## SHRINKAGE RULES



| No. | | Per Doz. |
|---|---|---|
| 31 | Two-Fold, 1 7/16 in. Wide, 24 1/2 in. Long, 1/8 in. Shrinkage per foot, 1/8 and 1/16 in. | $18 00 |

## YARD STICKS

| No. | | Per Doz. |
|---|---|---|
| 33 | Polished Hardwood | $2 00 |
| 41 | Polished Hardwood, with Brass Tips | 3 50 |
| 50 | Polished Hickory, with Brass Capped Ends | 4 50 |

ABOVE PACKED AS WANTED

SEATTLE HARDWARE COMPANY

# K. & E. MEASURING TAPES

## POCKET

### Tip Top Steel Pocket Tape

Steel Tape ¼ in. wide, Nickel Plated Brass Case, Spring Winding, Center Push Pin and Stop, marked one side only in 12ths and 16ths, inch.

| No. | Length | Per Dozen |
|---|---|---|
| 7710T | 36 in | $6 65 |
| 7711T— | 60 in | 8 50 |
| 7712T | 72 in | 9 50 |

ONE HALF DOZEN IN A BOX. AVERAGE WEIGHT PER DOZEN 4½ LBS

### Tip Top Linen Pocket Tape

Linen Tape ¼ in. wide, Nickel-Plated Brass Case, Spring Winding with Center Push Pin and Stop, marked one side only in 12ths and 16ths, inch.

| No. | Length | Per Dozen |
|---|---|---|
| 7720T | 36 in | $3 50 |
| 7721T— | 60 in | 4 25 |
| 7722T | 72 in | 4 75 |

### Excelsior Steel Pocket Tape

Steel Tape ¼ in. wide, Patent German Silver Case, Spring Winding, with Stop.

| No. | Length. | Each. |
|---|---|---|
| 7690T— | 8 ft. | $1 00 |
| 7691T— | 5 ft. | 1 25 |
| 7692T— | 6 ft. | $1 40 |

ONE-HALF DOZEN IN A BOX. AVERAGE WEIGHT PER DOZEN 1½ LBS

## COTTON

### Favorite, Ass Skin, Cotton

Cotton Tape ½ in. wide, Enameled Steel Case Seamless Brass Rim, Brass Handles.

| No. | Length | Weight per Doz. | Per Dozen. |
|---|---|---|---|
| 7900— | 25 ft | 3 lbs. | $3 75 |
| 7902 | 50 ft | 4 lbs. | 5 00 |
| 7904— | 75 ft. | 6 lbs. | 7 50 |
| 7905— | 100 ft. | 7 lbs. | 9 00 |

### Favorite, Pressed Leather, Cotton

Cotton Tape ½ in. wide, Pressed Leather Case, Brass Handles. Marked one side only in twelfths.

| No. | Length. | Weight per Doz. | Per Dozen |
|---|---|---|---|
| 7962— | 50 ft. | 4 lbs. | $ 8 00 |
| 7964 | 75 ft. | 6 lbs. | 10 00 |
| 7965— | 100 ft. | 7 lbs. | 12 50 |

ONE-HALF DOZEN IN A BOX

# DOG COLLAR PADLOCKS

No. P

No. B

No. 04064½

No. 04046

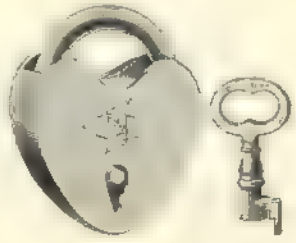
No. 04124½

**Self-Locking Spring Shackle**

All Padlocks Mounted on Fancy Easel Cards

| | | |
|---|---|---|
| **No. 04064½**—5/16 in., Wrought Brass, Nickel Plated | Per Card. | $3 00 |
| **No. 04046**—⅝ in., Aluminum | " | 3 50 |
| **No. 04124½**—¾ in., Wrought Brass, Nickel Plated | " | 4 00 |
| **No. P**—Assorted Sizes and Finishes | " | 3 00 |
| **No. B**— " " " | " | 4 00 |

ONE CARD IN A BOX



**Self-Locking Spring Shackle**

| | | |
|---|---|---|
| **No. 70**—⅝ in., Wrought Brass, Nickel Plated | Per Dozen, | $3 00 |
| **No. 71**—¾ " " " " | " | 3 00 |
| **No. 72**—1 " " " " | " | 3 50 |

ONE DOZEN IN A BOX

# PADLOCKS

### Bronze Metal

Cast bronze, polished, heavy spring shackle, two levers, two nickel-plated flat keys

| No. | | Per Doz. |
|---|---|---|
| 02866½—2½ | in. Weight per Dozen, 6 lbs | $8 00 |

ONE HALF DOZEN IN A BOX

### All Brass

**Extruded Metal, Ball-Bearing Pin Tumbler Cylinder**

Made from a solid block of extruded metal bored out to receive mechanism, heavy wrought spring shackle, two German silver gold plated keys, unlimited changes

| No. | | | Per Doz. |
|---|---|---|---|
| 2879—1 | in. | Weight per Dozen, 2¼ lbs | $18 00 |
| 2881 | 1½ in. | Weight per Dozen, 5½ lbs | 24 00 |
| 2882—1¾ | in. | Weight per Dozen, 8¾ lbs | 30 00 |
| 2883—2 | in. | Weight per Dozen, 10½ lbs | 40 00 |

EACH IN A BOX

### Cast Brass

Cast brass, polished, heavy spring shackle, two nickel-plated flat steel keys.

| No. | | Per Doz. |
|---|---|---|
| 02837—1½ | in. Weight per Dozen, 3 lbs | $4 00 |

ONE DOZEN IN A BOX

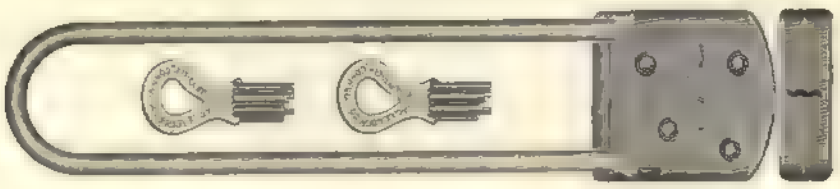
### Cast Brass

Cast brass, polished, heavy spring shackle, two nickel-plated flat steel keys

| No. | | Per Doz. |
|---|---|---|
| 2834—2 | in. Weight per Dozen, 5 lbs | $6 50 |

ONE DOZEN IN A BOX

### MOTORCYCLE PADLOCK



Steel case, ivory black finish, nickel-plated shackel, self-locking, six secure levers.

| No. | | Per Doz. |
|---|---|---|
| 4512—2 | in. Weight per Dozen, 10 lbs | $9 00 |

EACH LOCK IN A CARTON ONE HALF DOZEN IN A BOX

# PADLOCKS

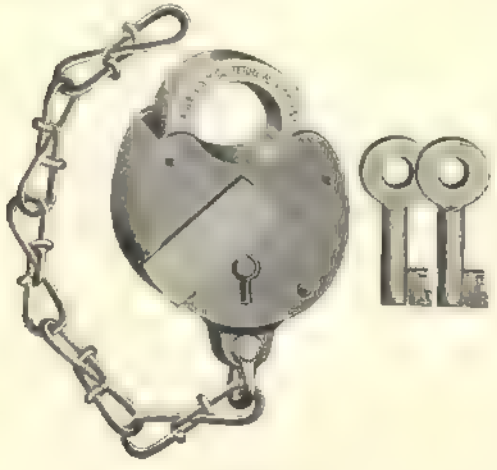
| No. | | Per Doz. |
|---|---|---|
| 171 | 2 in. Antique Copper Finish Case, Spring Shackle, Six Brass Levers, Two Flat Steel Keys; Weight per Dozen, 7 lbs..... | $5 50 |

| No. | | Per Doz. |
|---|---|---|
| 125 | —2¼ in., Cast Brass, Polished, Spring Shackle, Six Levers, Two Flat Steel Keys; Weight per Dozen, 6½ lbs | $8 00 |

## Genuine Champion, Six Lever

| No. | | Per Doz. |
|---|---|---|
| 1 | —2¼ in., Cast Gun-metal, Polished, Spring Shackle, Six Levers, Gunmetal Spring, Unlimited Key Changes, Two Flat Steel Keys; Weight per Dozen, 6½ lbs..... | $12 00 |

| No. | | Per Doz. |
|---|---|---|
| 1C | —2¼ in., Cast Bronze Metal, Polished, Spring Shackle with 8-in Chain, Six Levers, Gunmetal Spring, Unlimited Key Changes, Two Flat Steel Keys; Wt. per Doz., 7 lbs..... | $13 50 |



## Cast Bronze

Heavy and durable, for Railroad Cars, Switches and Warehouses

| No. | | Per Doz. |
|---|---|---|
| 04140 | 2½ in., Cast Bronze Case, Rough Finish with Galvanized Chain, Brass inside works, Spring Shackle Three Changes in each dozen, Two Bronze Keys | $17 00 |
| 04140A | —**Keyed Alike** otherwise same as No 04140..... | 18 00 |

ONE-HALF DOZEN IN A BOX WT DOZ 12 LBS

## Sargent

Cast bronze, spring shackle, two gold-plated keys. Best quality, absolute security; no better lock of its type manufactured.

### Without Chain

| No. | | | Per Doz. |
|---|---|---|---|
| 650 | —1 in. | Weight per Doz., 2¼ lbs | $20 00 |
| 651 | 1¼ in. | Weight per Doz., 2¾ lbs | 22 00 |
| 652 | 1½ in. | Weight per Doz., 5 lbs | 25 00 |
| 653 | 1¾ in | Weighf per Doz., 6 lbs | 28 05 |
| 654 | 2 in. | Weight per Doz., 8½ lbs | 32 25 |
| 655 | 2¼ in | Weight per Doz., 10½ lbs | 36 70 |

ONE-HALF DOZEN IN A BOX

### With Chain

| No. | | | Per Doz. |
|---|---|---|---|
| 652C | —1½ in. | Weight per Doz., 5½ lbs | $29 20 |
| 653C | 1¾ in | Weight per Doz., 6½ lbs | 32 25 |
| 654C | 2 in. | Weight per Doz., 9 lbs | 35 20 |

ONE-QUARTER DOZEN IN A BOX

# PADLOCKS

| No. | | Per Doz. |
|---|---|---|
| **BB879MK** | **Master Keyed.** 2 in. Heavy Wrought Steel Case, Bower Barff Finish, Self Locking Bronze Spring Shackle, Five Pin Tumblers, Two Paracentric Keys, Unlimited Changes. Weight per Dozen, 9 lbs. | $30 00 |
| **Master Keys** for No. BB879MK Padlock.... | | Each 1 00 |

| No. | | Per Doz. |
|---|---|---|
| **979P** | 1¾ in. Cast Bronze Case, Bronze Revolving Spring Shackle with Double Locking Feature, Five Pin Tumblers, Two Paracentric Keys, Unlimited Changes. Weight per Dozen, 7 lbs. | $32 00 |

EACH IN A BOX

## YALE

| No. | | Per Doz. |
|---|---|---|
| **326** | —2½ in., Cast Iron Case, "Nuvan" Finish, Revolving Copper-Plated Steel Shackle, Copper Plated Steel Disks, Two Nickel Plated Steel Keys; Wt. Dozen, 10 lbs. | $11 95 |

| No. | | Per Doz |
|---|---|---|
| **805F** | 2 in., Cast Iron Case, Bower Barff Finish, Bronze Revolving Shackle, Four Pin Tumblers, Two Nickel Plated Flat Steel Keys, 144 Changes; Key cannot be removed while Shackle is open. Wt. Doz., 8 lbs. | $17 90 |

Style of Chain with Nos. 843½, 853½ and 863½ Padlocks

| No. | | Per Doz |
|---|---|---|
| **8454** | —2 in., Seamless Steel Case, Bower-Barff Finish, Spring Shackle, Four Levers, Two Nickel-Plated Corrugated Steel Keys, 144 Changes. Wt. Dozen, 7½ lbs. | $20 85 |
| **8454½** | . Same as No. 8454, except with 9 in. Bronze Chain; Wt. Dozen, 8 lbs. | 23 85 |

Cast Bronze, Spring Shackle, Two Fluted Steel Keys with Gold Plated Bows.

| No. | Size | Per Doz |
|---|---|---|
| **813** | —1 in., without Chain, 48 Changes | $20 00 |
| **823** | 1¼ in., without Chain, 48 Changes | 22 00 |
| **833** | —1½ in., without Chain, 48 Changes | 25 00 |
| **843** | —1¾ in., without Chain, 72 Changes | 28 05 |
| **843½** | —1¾ in., with Chain, 72 Changes | 32 25 |
| **853** | 2 in., without Chain, 144 Changes | 31 00 |
| **853A** | 2 in., without Chain, Keyed Alike | 32 50 |
| **853½** | 2 in., with Chain, 144 Changes | 35 20 |
| **863** | 2¼ in., without Chain, 144 Changes | 38 50 |
| **863½** | 2¼ in., with Chain, 144 Changes | 42 70 |

Weights per Dozen: 813, 2¼ lbs.; 823, 2¾ lbs.; 833, 5 lbs.; 843, 6 lbs.; 853, 8½ lbs.; 863, 10 lbs.

SEATTLE HARDWARE COMPANY

# PADLOCKS

Steel Case, Malleable Spring Shackle, Two Flat Steel Keys

| No. | | Per Doz. |
|---|---|---|
| 100 | —1½ in., Black Enameled | $2 00 |
| 100B | —1½ in., Brass Plated | 2 00 |

ONE DOZ IN A BOX WT. 2 LBS

Steel Case, Malleable Spring Shackle, Two Flat Steel Keys

| No. | | Per Doz. |
|---|---|---|
| 1805 | —1¾ in., Black Enameled | $2 00 |

Steel Case, Malleable Spring Shackle, Two Flat Steel Keys.

| No. | | Per Doz. |
|---|---|---|
| 1910 | —2 in., Black Enameled | $2 50 |
| 1910B | —2 in., Brass Plated | 2 50 |

ONE DOZ. IN A BOX. WT. 2 1-2 LBS

Steel Case, Malleable Spring Shackle, Locks at both ends, Secure, Two Flat Steel Keys.

| No. | | Per Doz. |
|---|---|---|
| 1909 | —2 in., Black Enameled | $3 50 |
| 1909B | —2 in., Brass Plated | 4 00 |
| 1909G | —2 in., Galvanized | 5 00 |
| 1909BC | —2 in., Brass Plated, with 8 in. Chain | 6 00 |

ONE-HALF DOZ IN A BOX WT DOZ. 4 LBS

Steel Case, Malleable Spring Shackle, Two Flat Steel Keys.

| No | | Per Doz. |
|---|---|---|
| 16 | —15/16 in., Black Enameled | $2 00 |
| 16B | —15/16 in., Brass Plated | 2 00 |
| 18 | —1½ in., Black Enameled | 2 50 |
| 18B | —1½ in., Brass Plated | 2 50 |
| 19 | —1¾ in., Black Enameled | 3 00 |
| 19B | —1¾ in., Brass Plated | 3 00 |
| 19BA | —1¾ in., Brass Plated, Keyed Alike | 3 00 |

| No | | Per Doz. |
|---|---|---|
| 21 | —2 in., Black Enameled | $4 00 |
| 21B | —2 in., Brass Plated | 4 00 |
| 121 | —2¼ in., Black Enameled | 5 50 |
| 121B | —2¼ in., Brass Plated | 5 50 |

NOS 6 AND 8 ONE DOZ IN A BOX WEIGHT 2 LBS NO 9 ONE DOZ IN A BOX WEIGHT, 3 LBS NOS 91 AND 131, ONE-HALF DOZ IN A BOX. WEIGHT, 4 AND 5 LBS

*Locks at both ends, excepting Nos. 16 and 18*

Steel Case, Self Locking Spring Shackle, locks at both ends, Four Brass Levers, Two Flat Steel Keys.

| No. | | Per Doz. |
|---|---|---|
| 76 | —2 in., Ivory Black | $4 50 |

ONE-HALF DOZ. IN A BOX WT DOZ., 2 1-2 LBS.

Steel Case, Malleable Spring Shackle, Two Flat Steel Keys.

| No. | | Per Doz. |
|---|---|---|
| 25 | —2 in., Black Enameled | $3 00 |
| 25B | —2 in., Brass Plated | 3 00 |

ONE-HALF DOZ. IN A BOX. WT. DOZ. 3 1-4 LBS

# PADLOCKS

Steel Case, Malleable Spring Shackle, locks at both ends, Six Levers, Two Double-Bitted Keys.

| No. | | Per Box |
|---|---|---|
| **700B** | —2 in., Brass Plated | $4 00 |
| **702T** | 2 in., Hot Tinned, Rustproof, Interior Parts Brass | 6 50 |
| **702TC** | —2 in., with Chain, otherwise same as 702T | 7 50 |

ONE HALF DOZ IN A BOX WT DOZ 5 LBS

| No | | Per Doz |
|---|---|---|
| **1904** | —2 in., Cast Brass, Ebony Background, Raised Parts Polished, Self-Locking Spring Shackle, Two Corrugated Steel Keys | $6 00 |

ONE HALF DOZ IN A BOX WT DOZ 5 3-4 LBS

| No. | | Per Doz |
|---|---|---|
| **217** | —2 in., Cast Brass Case, Polished, Brass inside works, Brass Spring Shackle, Two Flat Steel Keys | $10 00 |

ONE-HALF DOZ IN A BOX. WT DOZ. 5 LBS

Cast Brass Case, Brass Spring Shackle, Two Nickel-Plated Corrugated Keys, One Master Key furnished with each dozen. Weight Dozen 3½ lbs.

| No. | | Per Doz |
|---|---|---|
| **04227** | —1⅛ in., without Chain | $4 50 |
| **04227C** | —1½ in., with Chain | 6 00 |

Spring Shackle, Six Levers, locks at both ends, Gun-metal Spring, Two Flat Steel Keys.

| No. | | Per Doz. |
|---|---|---|
| **5441** | —2 in. Black Enam. Steel Case | $6 00 |
| **5441MK** | —As 5441, Master-Keyed | 8 00 |
| **5438** | —2 in., All Brass | 9 00 |
| **5438A** | —2 in., All Brass, **Keyed Alike** | 10 00 |

**Master Keys** for No. 5441MK . . . . Each, 75

| No. | | Per Doz. |
|---|---|---|
| **4** | —2 in., Gun-metal Finish; Bronze Top, Bottom and Interior Parts; Malleable Spring Shackle, Two Corrugated Steel Keys. | $6 00 |

ONE-HALF DOZ IN A BOX WT DOZ 5 LBS

| No. | | Per Doz |
|---|---|---|
| **34** | —Combination Time Padlock, non-pickable, 2 in., Black Enameled Case, Nickel-Plated Brass Dial, Malleable Spring Shackle | $17 00 |

EACH IN A BOX WITH FULL DIRECTIONS WT DOZ 6 LBS

## RURAL FREE DELIVERY

### Master-Keyed

| No. | | Per Doz. |
|---|---|---|
| **04233** | —1½ in. Brass Case, Malleable Spring Shackle, Two Flat Steel Keys, One Master Key furnished with each dozen. Weight per Dozen, 2 lbs. | $5 00 |

*Two Keys to each Lock and one Master Key to the Dozen. Can be Master-Keyed to order in sets of thirty-six Locks by ordering from factory Rural Free Delivery Padlocks SOLD ONLY IN EVEN DOZEN LOTS, with Master Key for each dozen. One Dozen in a Box.*

# PADLOCKS

Cast Iron Case, Self-Locking, Spring Shackle, Two Nickel-Plated Flat Steel Keys.

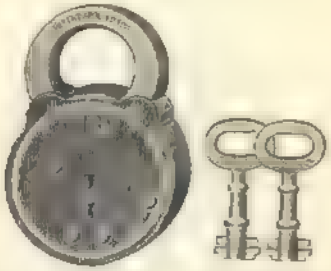
| No | | Per Doz |
|---|---|---|
| 4415 | —2 in., Bower-Barff Finish, Bronze-Plated Shackle and Panels | $6 50 |

ONE HALF DOZ IN A BOX

Steel Case, Self-Locking, Automatic Spring Shackle, Two Nickel-Plated Corrugated Steel Keys

| No | | Per Doz |
|---|---|---|
| 4095 | 2 in., Ivory Black | $6 00 |

ONE HALF DOZ IN A BOX WT DOZ 3/4 LBS



Steel Case, Brass-Plated Malleable Shackle, Six Lever, Two Double-Bit Nickel-Plated Steel Keys

| No | | Per Doz |
|---|---|---|
| 9925D | —2 in., Black Enameled | $4 00 |
| 9925H | —2 in., Blue Enameled | 4 00 |
| 9925L | —2 in., Red Enameled | 4 00 |

ONE DOZ IN A BOX. WT 4 LBS

Steel Case, Self-Locking, Malleable Spring Shackle, Two Flat Steel Keys

| No | | Per Doz |
|---|---|---|
| 4202 | 2 in., Ivory Black | $2 00 |
| 4202¼ | —2 in., Brass Plated | 2 50 |

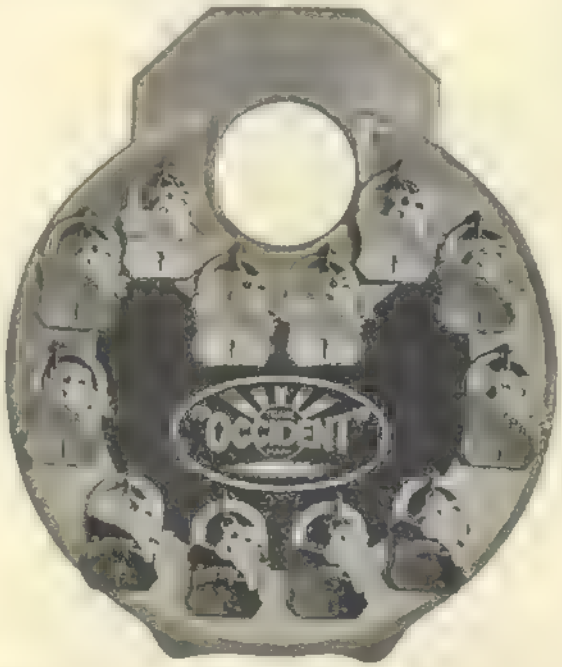
ONE DOZ IN A BOX WT 2 1-2 LBS

# PADLOCKS ON CARDS

**Mounted on Heavy Easel Board, Lithographed in Green and Gold**

| No | | Per Card |
|---|---|---|
| 10 | —Card Assortment consists of one-sixth Doz. each Nos. 1910 and 1910B and one-third Doz. each Nos. 1805 and 1805B | $2 50 |

ONE CARD IN A BOX WT 3 LBS




| No | | Per Card |
|---|---|---|
| 2910 | Card Assortment consists of one-third Doz. each Nos. 1910, 1910B and 1910N | $3 00 |

ONE CARD IN A BOX WT 4 LBS

# PADLOCKS ON CARDS

Mounted on Heavy Easel Board, Lithographed in Green and Gold

No. 20—Assortment consists of one-twelfth Doz. each Nos. 18, 19, 21, 121B, 1805B, 100B, 25, 25B, 1910B, 1909, 1909B and 700..... Per Card $4 00

ONE CARD IN A BOX. WT. EACH 4 LBS.

No. 30—Assortment consists of one-sixth Doz. each Nos. 18, 18B, 21, 21B, 121 and 121B... Per Card .... $4 50

No. 2909—Card Assortment consists of one third Doz. each Nos. 1909B, 1909A and 1909..... Per Card $5 00

ONE CARD IN A BOX. WT. 5 LBS

No. 40—Card Assortment consists of one-third Doz. each No. 700, 700B and 702T..... Per Card $5 50

ONE CARD IN A BOX WT. 6 LBS

# "EAGLE" CABINET

# LOCK DISPLAY AND STOCK CABINET

Front View

Assortment No. 22003

Rear View



This Cabinet is neat and convenient, nicely finished, and on the front are mounted twenty-three styles of Cabinet Locks, making an attractive showcase. Place the cabinet where it can be seen and the locks will sell themselves.

It contains 11 5/12 dozen Cabinet Locks, the retail value of which is $32.80. Below is given in detail the quantity, also the retail price, of each lock.

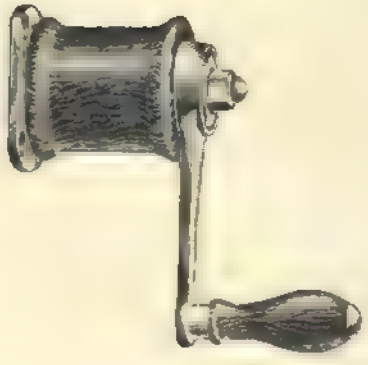
| Quantity | Number | Style | Retail Price Each | Retail Value |
|---|---|---|---|---|
| 13 Locks | 161 | Drawer | $0 15 | $1 95 |
| 13 " | 72 | " | 10 | 1 30 |
| 3 " | 237 | " | 35 | 1 05 |
| 3 " | 01816 | " | 40 | 1 20 |
| 3 " | 1921 | " | 25 | 0 75 |
| 3 " | 01921 | " | 35 | 1 05 |
| 3 " | 01901 | " | 50 | 1 50 |
| 3 " | 1921 | " | 40 | 1 20 |
| 3 " | 01848 | " | 35 | 1 05 |
| 3 " | 1980 | Locker | 75 | 2 25 |
| 3 " | 178 | Wardrobe | 35 | 1 05 |
| 3 " | 6098 | " | 60 | 1 80 |
| 3 " | 1055 | " | 45 | 1 35 |
| 13 Locks | 1875¼ | Wardrobe | $0 10 | $1 30 |
| 13 " | 417¼ | " | 10 | 1 30 |
| 13 " | 510 | " | 15 | 1 95 |
| 3 " | 6071½ | Chest | 75 | 2 25 |
| 7 " | 166 | " | 25 | 1 75 |
| 7 " | 64 | " | 20 | 1 40 |
| 13 " | 43 | " | 10 | 1 30 |
| 3 " | 427 | " | 35 | 1 05 |
| 3 " | 410 | " | 40 | 1 20 |
| 3 " | 9 | " | 60 | 1 80 |
| 11 5/12 doz | | | | $ 32 80 |

**Assortment, No. 22003**.....Each, $40 00

*Each Cabinet packed in a wooden case, ready for shipment. Size 19 in. high, 16 in. wide, 11¼ in. deep. Weight each, 63 lbs.*

# SHIP CHANDLERY

## STEERING WHEELS



### Side Steering Lever

**No. 212**—6-in. Handle, Drum 2¼x3 in. Weight Each Net, 2½ lbs..... .....Each, $8 00

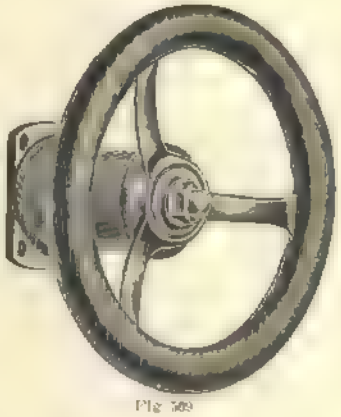


Fig 569

### Wood, Side

| Nos..... | 1 | 2 |
|---|---|---|
| Diameter of Wheel, in.. . | 7½ | 10½ |
| Size of Drum, in. | 2½x2 | 3x2 |
| Weight Each Net, lbs | 1½ | 3 |
| Each | $7 50 | 9 00 |

Fig 560

### Galvanized Iron Wheel, Wood Handles

| Nos. | 03 | 04 | 05 |
|---|---|---|---|
| Size Wheel, in | 12 | 16 | 20 |
| Size Drum, in. ... | 2½x3 | 3x4 | 4x4½ |
| Weight Each Net, lbs. | 3 | 6 | 11½ |
| Each | $4 13 | 5 18 | 12 45 |

Fig 561

### Polished Brass Wheel, Wood Handles

| Nos. | 6 | 7 | 8 |
|---|---|---|---|
| Size Wheel, in | 12 | 16 | 20 |
| Size Drum in | 2½x3 | 2½x3½ | 4x4½ |
| Weight Each Net, lbs | 2½ | 4½ | 9½ |
| Each..... | $8 00 | 10 50 | 22 50 |

## TILLER ROPE

### Samson

Made of best Samson cotton stock braided over a phosphor bronze flexible wire cable Mahogany finish.

**No. 8**—Diam. ½ in., Weight 2¼ lbs. per 100 feet. . . Per Foot, $0 05
**No. 10**—Diam. 5/8 in., Weight 3½ lbs. per 100 feet.... . . . . " 07

200 FEET IN A COIL

SEATTLE HARDWARE COMPANY

# SHIP CHANDLERY

## FLAG-POLE SOCKETS

### Fig. 556—Bow, Straight

Polished Brass

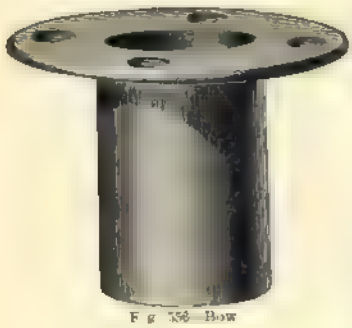


Fig. 556—Bow

| Inside Diameter, in. | 1 | 1¼ | 1½ |
|---|---|---|---|
| Length, in. | 1⅝ | 2 | 2⅛ |
| Weight lbs., Each | ¼ | ⅜ | ½ |
| Each | $0 75 | 0 90 | 1 20 |

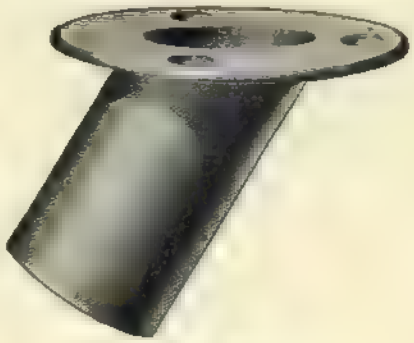


Fig. 557—Stern

### Fig. 557—Stern, Beveled

Polished Brass

| Inside Diameter, in. | 1 | 1¼ | 1½ |
|---|---|---|---|
| Length, in. | 1⅝ | 2 | 2⅛ |
| Weight lbs., Each | ¼ | ½ | ¾ |
| Each | $0 90 | 1 05 | 1 35 |

Fig. 548—Bow

### Fig. 549—Bow, Straight

Polished Brass

| Inside Diameter, in. | 1 | 1¼ | 1½ |
|---|---|---|---|
| Height, in. | 3½ | 4 | 5 |
| Size Base, in. Square | 2⅝ | 2⅞ | 3¼ |
| Weight lbs., Each | ½ | ⅝ | ¾ |
| Each | $1 13 | 1 28 | 1 50 |

Fig. 550—Stern

### Fig. 550—Stern, Beveled

Polished Brass

| Inside Diameter, in. | 1 | 1¼ | 1½ |
|---|---|---|---|
| Height, in. | 3½ | 4 | 5 |
| Size Base, in. Square | 2⅝ | 2⅞ | 3¼ |
| Weight lbs., Each | ½ | ¾ | 1¼ |
| Each | $1 50 | 1 65 | 1 88 |

## STANCHION POSTS

### Fig. 545—Center or End

Fig. 545—Center or End

| No. | 2½ |
|---|---|
| Bored for Rail, in | ⅝ |
| Extreme Height of Post, in | 2½ |
| Weight Each, lbs. | 1¼ |
| Galvanized | Each, $0 30 |
| Polished Brass | " 53 |

*Specify Center or End*

### Fig. 546—Bow or Corner

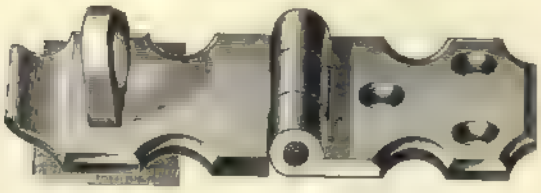
| No. | 2½ |
|---|---|
| Bored for Rail, in | ⅝ |
| Extreme Height of Post, in | 2½ |
| Weight Each, lbs. | 1¼ |
| Galvanized | Each, $0 45 |
| Polished Brass | " 68 |

*Specify Bow or Corner*

Fig. 546—Bow or Corner

# SHIP HARDWARE

## BOSTON PATTERN HASP



Malleable Galvanized, with Brass Pin, and Brass

| Entire Length, in | 3 | 4 | 5 | 6 |
|---|---|---|---|---|
| Weight, Doz., lbs. | 2½ | 3 | 4 | 6 |
| Malleable Galv. Per Doz., | $2 50 | 3 00 | 4 00 | 4 80 |
| Brass, Polished " | 6 00 | 8 00 | 10 50 | 13 00 |

ONE DOZEN IN A BOX

## CUDDY DOOR HINGES

Polished Brass, Boston Pattern

| No. 48—Entire Length, in | 3 | 4 | 5 | 6 |
|---|---|---|---|---|
| Weight, per Pair, lbs | ½ | ¾ | 1 | 1½ |
| Per Pair | $0 60 | 0 80 | 1 00 | 1 30 |

ONE DOZEN PAIRS IN A BOX

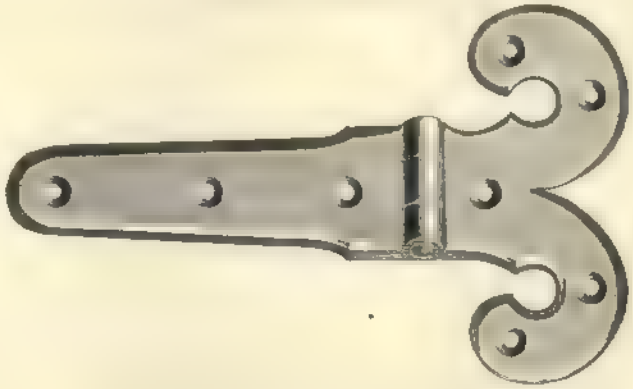
## SKYLIGHT HINGES

Plain Brass

| No. 498—Distance between joints, in. | 3 | 4 | 5 | 6 |
|---|---|---|---|---|
| Length of Outside Straps, in. | 6 | 6 | 4 | 6 |
| Weight, per Pair, lbs | 2 | 2½ | 3¾ | 4 |
| Per Pair | $1 90 | 1 90 | 2 05 | 2 25 |

PACKED AS WANTED

## PORT HINGES



With Brass Pin. Brass and Galvanized

| Entire Length, in. | 4 | 5 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|
| Weight per Pair, lbs. | ⅝ | ½ | ¾ | 1½ | 2½ | 3½ |
| No. 470G—Galvanized Per Pair, | $0 60 | 0 70 | 0 80 | 1 00 | 1 50 | 2 00 |
| No. 470B—Plain Brass. " | 90 | 1 00 | 1 20 | 1 50 | 2 20 | 3 00 |

PACKED AS WANTED

## SKYLIGHT QUADRANTS

Fig. 481

Polished Brass

| Length, in. | 8 | 9 | 10 | 12 |
|---|---|---|---|---|
| Weight per Pair Net, lbs. | 2 | 2¼ | 2¾ | 4 |
| Per Pair | $3 00 | 3 40 | 3 75 | 4 50 |

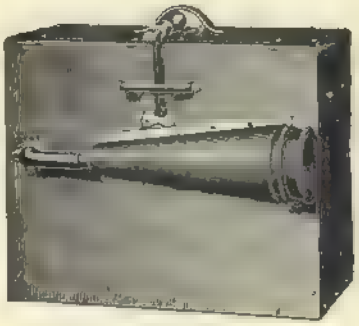
SEATTLE HARDWARE COMPANY

# SHIP CHANDLERY

## FOG HORNS

Wood Mouthpiece, Brass Reed

**No. 946T**—Tin, 24 in. long. .....Per Dozen, $ 8 50
**No. 946B**—Brass, 24 in. long..... " 18 00
WEIGHT PER DOZEN 9 LBS



Lathrop's

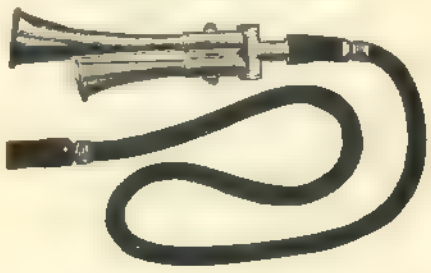
| | Height, in. | Length, in. | Width, in. | Weight, lbs. | Each |
|---|---|---|---|---|---|
| **No. 1**— | 16½ | 20½ | 9½ | 29 | $22 50 |
| **No. 2**— | 15 | 17½ | 9 | 26 | 19 50 |

## BOAT WHISTLE

Fultone

| | |
|---|---|
| **No.** | **24A** |
| Length, in | 6¾ |
| Diameter, in | 1⅛ |
| Weight Each, lbs | ½ |
| Each | $2 00 |

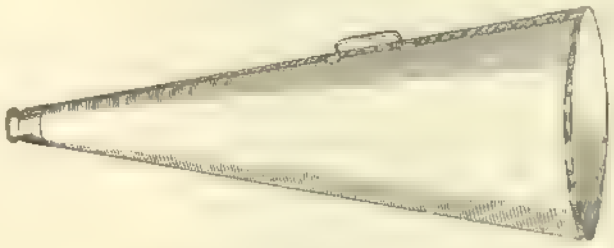
## MOTOR BOAT SIGNAL



With flexible tube; produces a loud prolonged signal. Nothing to get out of order. Length body 8¾ in., length tube 9 feet

**No. 946NC** Complete. Wt. Each, 1 lb. .Each, $4 50
**No. 946NT**—Trumpets Only. Wt. Each, ¼ lb. " 2 50

## MEGAPHONES



Waterproof, Aluminum Mountings

| **Nos.** | **1** | **1½** | **2** | **2½** |
|---|---|---|---|---|
| Length, in. | 18 | 24 | 30 | 36 |
| Weight Each Net, lbs | ½ | 1 | 2 | 2½ |
| Each | $4 00 | 5 00 | 6 00 | 7 00 |

ONE-QUARTER DOZEN IN A CRATE

## WHISTLES

Air Pump

**No. 947** Length 22 in. Diameter 4 in., Four second Blast . . . . . .Each, $10 00
WEIGHT EACH 6½ LBS

**Ereful**—2½ x 21 in. over all. Made of Seamless Brass Tubing, Highly Polished. Each, $5 00
WEIGHT EACH 2½ LBS

SEATTLE HARDWARE COMPANY

# SHIP CHANDLERY

## BELLS

**Binnacle**

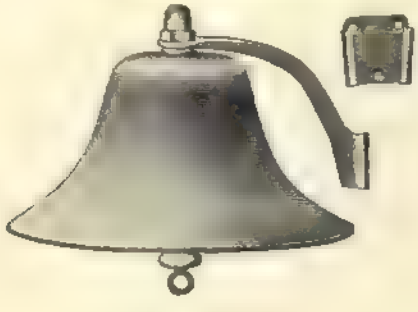
With Yoke, Bell Metal

| | | | |
|---|---|---|---|
| **No. 25L**—6 in., Polished | Weight 1½ lbs | Each, | $5 00 |
| **No. 27L**—8 " Polished | Weight 7½ lbs | " | 9 00 |

**Binnacle**

Bell Metal, Detachable Bracket

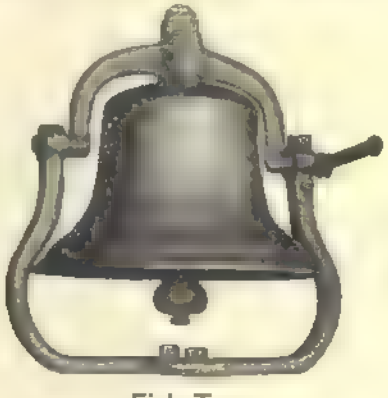
| | | | |
|---|---|---|---|
| **No. 25M**—6 in., Polished, Heavy | Wt 4½ lbs | Each, | $5 20 |
| **No. 27M**—8 in., Polished, Heavy | Wt 8½ lbs | " | 8 86 |
| **No. 29M**—10 in., Polished, Heavy | Wt 14 lbs | " | 22 00 |



**Merry Widow**

Stamped Brass, Detachable Bracket

| | | | |
|---|---|---|---|
| **No. 80**—6 in., Rough. | Weight 1½ lbs | Each, | $1 60 |
| **No. 85**—6 in., Polished. | Weight 1½ lbs | " | 1 80 |
| **No. 95**—8 in., Polished | Weight 3 lbs | " | 3 80 |



**Fish Trap**

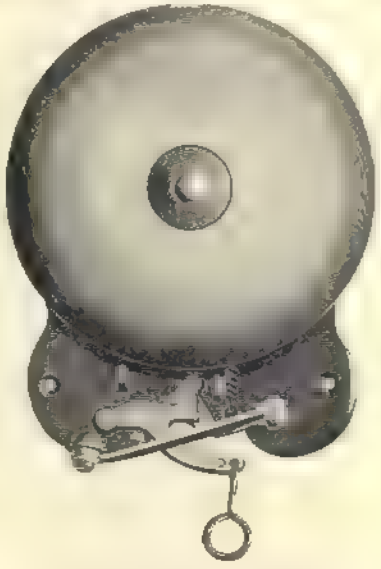
Brass

**No. 28**—18 in. Diameter, Weight 1.08 lbs. Each, $75 00

**Jingle**

Brass, with Spring

| **Nos.** | **3** | **3½** | **4** | **4½** | **5** |
|---|---|---|---|---|---|
| Weight each, lbs | ¾ | 1 | 1½ | 1¾ | 2 |
| Each | $2 25 | 2 50 | 2 75 | 3 50 | 4 00 |



**No. 200—Trip Gong**

Polished Bell Metal

| **Diameter,** in | **3** | **4** | **5** | **6** |
|---|---|---|---|---|
| Weight per Dozen, lbs. | 16 | 18 | 25 | 32 |
| Per Dozen | $10 00 | 12 50 | 16 50 | 24 00 |
| **Diameter,** in | **8** | **9** | **10** | **12** |
| Weight per Dozen, lbs | 65 | 110 | 120 | 175 |
| Per Dozen | $46 00 | 70 00 | 84 00 | 150 00 |

*All above 3 inches have wood hammers.*

SEATTLE HARDWARE COMPANY

# SHIP CHANDLERY

## BELL CRANKS

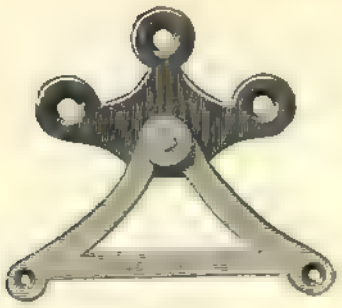


Fig. 610

Plate, Brass, Side or Flat.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Length of Crank, in | 3 | 3¼ | 4½ |
| Weight per Dozen, lbs. | 2 | 3 | 4 |
| Per Dozen. | $6 00 | 7 50 | 9 00 |

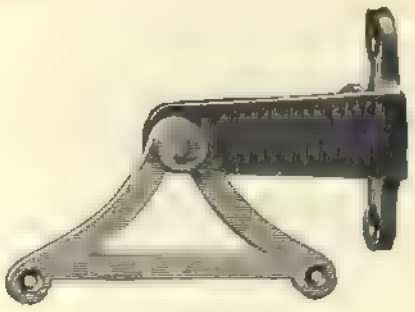


Fig. 611

Pillar, Brass, End or Upright.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Length of Crank, in | 3 | 3¼ | 4½ |
| Weight per Dozen, lbs. | 2 | 4 | 6 |
| Per Dozen. | $7 50 | 9 00 | 10 50 |

## BELL PULLS

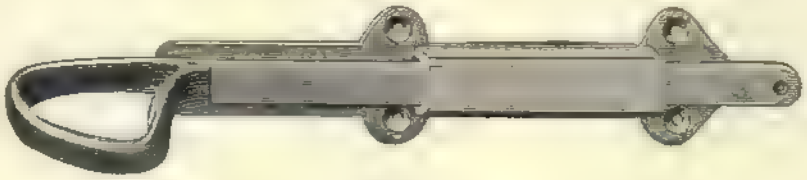


Fig. 607

Brass, Polished

| | | |
|---|---|---|
| No. 0—1⅝-in. Pull. | Weight per Dozen, 2½ lbs. | Per Dozen, $12 00 |
| No. 1—2⅜-in. Pull. | Weight per Dozen, 5 lbs. | " 14 65 |
| No. 2—3⅛-in. Pull | Weight per Dozen, 8 lbs. | " 16 50 |
| No. 3 3⅜-in Pull | Weight per Dozen, 9 lbs. | " 19 50 |

## BELL OR CHECK SPRING

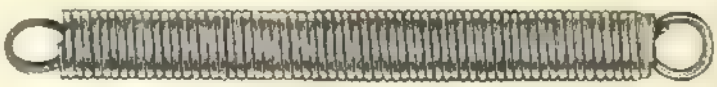


Fig. 608

| Size, in. | 4 | 5 | 6 |
|---|---|---|---|
| Weight, per Dozen | ½ | ¾ | 1 |
| Per Dozen | $1 50 | 1 88 | 3 00 |

## SIDE OR PORT LIGHTS

Fig. 523

| Opening, in. | 3 | 4 | 5 | 6 | 7 | 8 | 10 |
|---|---|---|---|---|---|---|---|
| Weight Each, lbs. | 2 | 3 | 4 | 5½ | 8 | 11 | 20 |
| Iron Each, | $3 38 | 3 75 | 4 13 | 5 63 | 6 75 | 8 25 | 16 50 |
| Brass " | 4 13 | 4 50 | 4 88 | 6 38 | 7 50 | 9 00 | 21 00 |

## DECK PLATES

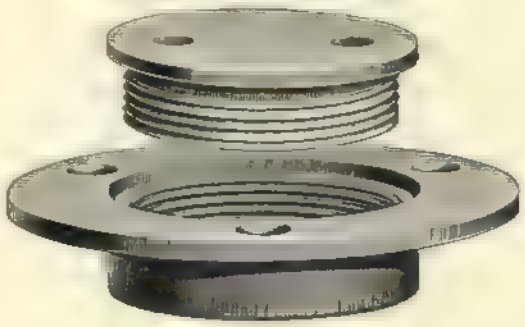


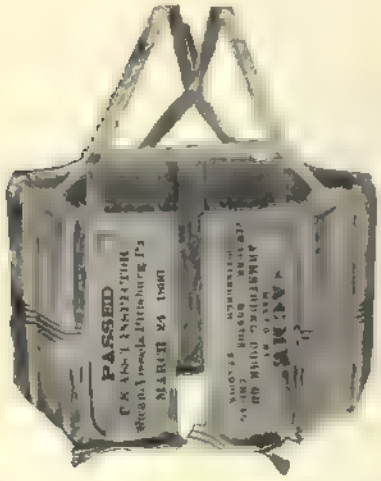
Fig. 532

Polished Brass, Threaded for Iron Pipe.

| Opening, in. Pipe. | ¾ | 1 | 1¼ | 1½ | 2 | 2½ |
|---|---|---|---|---|---|---|
| Weight Each, lbs. | ¼ | ½ | ¾ | 1 | 1½ | 2½ |
| Each | $0 95 | 1 05 | 1 20 | 1 35 | 1 80 | 2 40 |

# SHIP CHANDLERY

## LIFE PRESERVERS

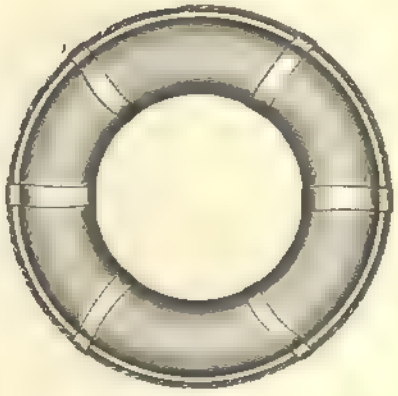



**Acme, Jacket**

**No. 1** Solid Block Cork. Weight per Dozen, 90 lbs. ..... Per Dozen, $18 00

ONE DOZEN IN A BUNDLE.

## LIFE BUOYS



**Ring**

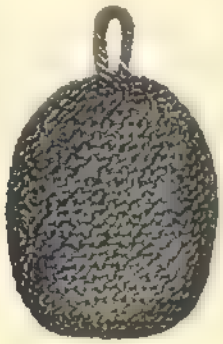
Made of consolidated cork. Extra strong covering, sewed with extra heavy linen thread

| **Outside Diameter, in.** | **19** | **24** | **27** | **30** |
|---|---|---|---|---|
| Weight Each Net, lbs | 5 | 5½ | 6¾ | 7½ |
| Each | $4 00 | 5 00 | 5 75 | 6 25 |

## FENDERS

**Fig. 812—Canvas, Cork Filled**

| **Length** | **16** | **18** | **22** | **24** |
|---|---|---|---|---|
| Diameter, in | 4 | 5 | 6 | 8 |
| Weight, lbs. Each | 1 | 2¼ | 3¾ | 5 |
| Each | $2 50 | 3 25 | 3 80 | 7 50 |



**Netted Manila Rope, Tarred, Cork Filled**

| **Length, in** | **16** | **18** | **20** | **22** |
|---|---|---|---|---|
| Weight Each Net, lbs | 11 | 13 | 15½ | 18 |
| Each | $5 00 | 5 50 | 6 00 | 6 70 |

**Oblong Yacht, Netted Manila Rope**

| **Length, in** | **12** | **16** | **18** |
|---|---|---|---|
| Diameter, in | 3¼ | 4 | 5 |
| Weight Each Net, lbs. | 1 | 2 | 3½ |
| Each | $3 00 | 4 50 | 5 50 |

SEATTLE HARDWARE COMPANY

# SHIP CHANDLERY

## COTTON DUCK

## COTTON DUCK

### Standard, Wide

| Width, in. | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 84 | 96 | 108 | 120 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 10—(Equiv. to 9 oz.) per yd. | $0 34 | 0 41 | 0 48 | 0 55 | 0 63 | 0 70 | 0 78 | 0 87 | 1 01 | 1 21 | 1 39 | 1 60 |

### Standard, Narrow, 22 in. Wide

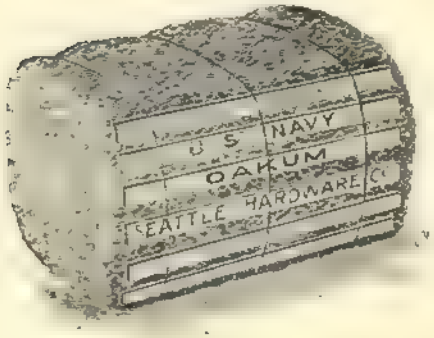
| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Width, in. | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| Weight per Lineal Yard, oz. | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 |
| Per Yard | $0 45 | 0 43 | 0 41 | 0 38 | 0 36 | 0 34 | 0 32 | 0 31 | 0 29 | 0 28 | 0 26 |

## BURLAP

**No. 7**—Weight 7 oz., Width 40 in. . . . . Per Yard, $0 12

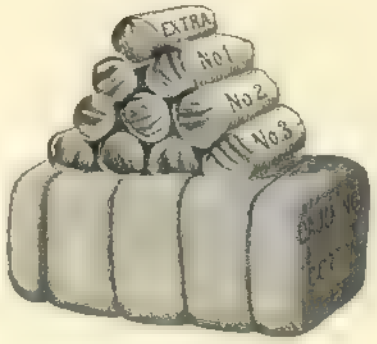
100 YARDS IN A BOLT, 20 BOLTS IN A BALE

## OAKUM




**U. S. Navy**—50 lb. Bales, Full Weight...Per Bale, $5 00
**Best** 50 " Bales, Full Weight... " 5 50
**Plumbers'**—50 " Bales, Full Weight... " 4 00

## CALKING COTTON, SPUN




**No. 1**—1-lb. Bundles. . . . . Per Pound, $0 30

IN 100 POUND BALES

## SAIL NEEDLES

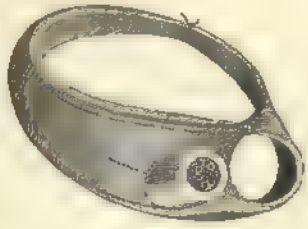
| Nos. | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 14½ | 15½-15 | 16½-16 | 17½-17 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Length, in. | 4⅛ | 3⅞ | 3⅝ | 3½ | 3⅜ | 3¼ | 2⅝ | 2⅞ | 2½ | 2⅜ | 2¼ |
| Per 100 | $17 00 | 15 00 | 13 00 | 11 00 | 7 20 | 5 50 | 3 00 | 3 50 | 2 60 | 2 60 | 2 60 |

TWENTY-FIVE IN A PAPER

SEATTLE HARDWARE COMPANY

# SHIP CHANDLERY

## SAILORS' PALMS



| | |
|---|---|
| **No. 1**—Half Hide Mounted, Seaming; Weight per Dozen, 2½ lbs | Per Dozen, $ 4 00 |
| **No. 2**—Full Hide Mounted, Seaming; Weight per Dozen, 5 lbs | " 4 50 |
| **No. 3**—Brass Mounted, Seaming; Weight per Dozen, 3 lbs | " 5 00 |
| **No. 7**—All Hide, Seaming, Extra Stitched; Weight per Dozen, 3 lbs | " 10 00 |
| **No. 8**—All Hide, Roping, Extra Stitched; Weight per Dozen, 3 lbs. | " 15 00 |

ONE DOZEN IN A BOX

## BENCH HOOK

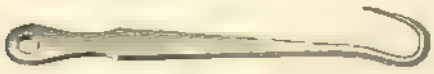


Fig. 805

**Sailmakers'**

**No. 10**—Weight per Dozen, 1 lb.....Per Dozen, $15 00

## CUTTING PUNCHES

Fig. 763

Cuts holes for all sizes of grommets

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Weight Each, lbs | ½ | ½ | ½ | ½ | ¾ | ¾ |
| Each | $1 50 | 1 50 | 1 80 | 1 95 | 2 25 | 2 65 |

## GROMMETS

Fig. 746

**Sheet**

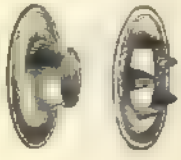


Fig. 747

**Teeth**

**Fig. 746 –Sheet Washer Grommets, Brass**

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Diameter Hole, in. | 5/16 | ¼ | 3/8 | 7/16 | 9/16 | 5/8 |
| Wt. per Gross, lbs. | ½ | ½ | 1 | 1¼ | 1¾ | 3 |
| Per Gross | $0 50 | 0 80 | 1 10 | 1 50 | 2 50 | 3 50 |

**Fig. 747 Teeth Grommets, Brass**

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Diameter Hole, in. | 5/16 | ¼ | 3/8 | 7/16 | 9/16 | 5/8 |
| Wt. per Gross, lbs. | 1 | 1 | 1¼ | 1½ | 2 | 4 |
| Per Gross | $0 60 | 0 90 | 1 25 | 1 75 | 2 75 | 4 00 |

ONE GROSS IN A BOX.

## GROMMET DIES

Fig. 762

**Fig. 762C—For Sheet Brass Washer and Teeth Grommets**

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Weight Each, lbs | 1½ | 1½ | 1½ | 2 | 3 | 4 |
| Each | $3 00 | 3 23 | 3 38 | 3 53 | 3 75 | 4 05 |

**Fig. 762B Patent Spur, for Spur and Conical Point Grommet**

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Weight Each, lbs | 1½ | 1½ | 1½ | 1½ | 2 | 3 |
| Each | $3 00 | 3 23 | 3 38 | 3 53 | 3 75 | 4 05 |

ONE IN A BOX

## COPPERING HAMMER

**Drew's, Cast Steel**

**No. 16** Weight per Dozen Net, 19 lbs. Per Dozen, $15 00

## COPPERING PUNCH

**Drew's, Cast Steel, Polished**

**No. 520** Weight per Dozen, 4½ lbs. Per Dozen, $4 50

SEATTLE HARDWARE COMPANY

# SHIP CHANDLERY

## SHIP SCRAPERS

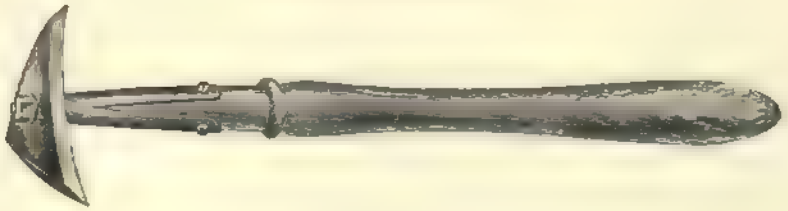


Fig 511

### Regular, Tempered Steel Blade, Galvanized Socket

**No. 1**—Blades ¼ in. Thick. Weight per Dozen, 20 lbs..... Per Dozen, $11 25
**No. 2**—Blades ⅛ " Thick. Weight per Dozen, 15 " ..... " 8 75

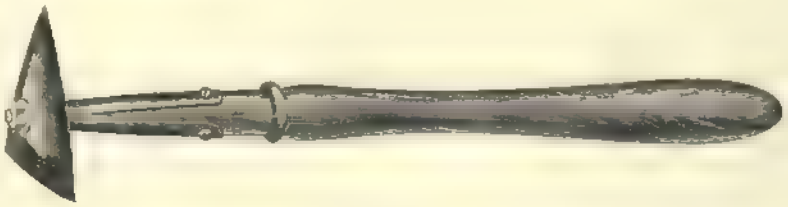


Fig 514

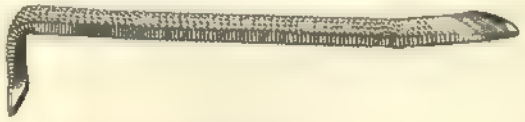
### Concavo-Convex, Tempered Steel Blades, Galvanized Socket

**No. 5**—Weight per Dozen, 18 lbs..... Per Dozen, $11 25

Fig. 513

### Square, Tempered Steel Blade, Galvanized Socket

**No. 3**—Blades 2½ in Square, ⅛ in. Thick. Weight per Dozen, 13 lbs ..... Per Dozen, $6 75



### Steel

**No. 4**—Assorted, 12 to 18 in. Weight per Dozen, 16 lbs..... Per Dozen, $18 00

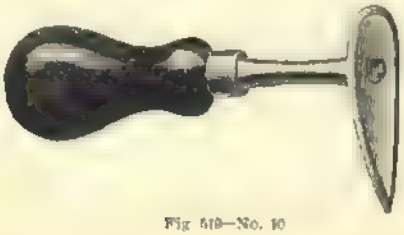


Fig 519—No. 10

Fig 512—No 15

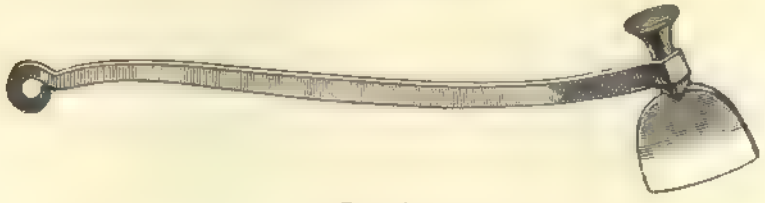
### Boat or Plumbers' Scrapers

**No. 10** Oval. Length over all 5 in., Size of Blade 2¼x1 in Weight per Dozen, 2¼ lbs . . . . . Per Dozen, $5 25
**No. 15** Triangular. Length over all 5 in , Size of Blade 2x2 in Weight per Dozen, 2¼ lbs " 5 25

ONE DOZEN IN A BOX

# SHIP CHANDLERY

## HAWSING IRONS



### Drew's

**No. 25**—Steel Blades, Blacked, ¼ in. Thick. Weight per Dozen, 60 lbs . . . Per Dozen, $22 50
**No. 26**—Steel Blades, Polished, ¼ in. Thick. Weight per Dozen, 60 lbs. . . . " 30 00
**No. 27**—Bent Steel Blades, Blacked, 5/16 in Thick. Weight per Dozen, 72 lbs. . . " 30 00

PACKED AS WANTED

## CALKING IRONS

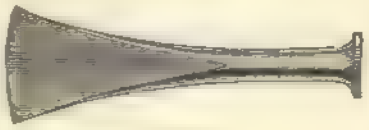


Fig. 496

### Solid Steel, Common or Making

| Nos. | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| Thickness, in | 1/16 | 1/8 | 5/16 | 1/4 |
| Weight per Dozen, lbs. | 5 | 6 | 6½ | 7 |
| Per Dozen | $6 75 | 7 00 | 7 13 | 7 28 |

### Drew's, Common or Making

| Nos. | 10 | 11 | 12 | 13 |
|---|---|---|---|---|
| Thickness, in | 1/16 | 1/8 | 5/16 | 1/4 |
| Weight per Dozen, lbs. | 5 | 6 | 6½ | 7 |
| Per Dozen | $12 00 | 12 00 | 12 00 | 12 00 |

Fig. 497

### Solid Steel, Deck or Dumb

**No. 5** Weight per Dozen, 7½ lbs. Per Dozen, $7 88

### Drew's, Deck or Dumb

**No. 15** Weight per Dozen, 7 lbs . Per Dozen $13 50

Fig. 498

### Bent or Crooked

**No. 6**—Solid Steel. Weight per Dozen, 6½ lbs. Per Dozen, $ 7 88
**No. 16**—Drew's. Weight per Dozen, 6½ lbs. Per Dozen, 14 25

Fig. 499

### Spike

**No. 7** Solid Steel Weight per Dozen, 6½ lbs. Per Dozen, $ 7 50
**No. 17**—Drew's. Weight per Dozen, 6½ lbs. Per Dozen, 12 00

Fig. 500

### Sharp or Butt

**No. 8**—Solid Steel Weight per Dozen, 9 lbs. . . . . Per Dozen, $ 9 00
**No. 18**—Drew's. Weight per Dozen, 9 lbs. . . . . Per Dozen, 15 00

Fig. 501

### Reefing or Clearing

**No. 9** Solid Steel. Weight per Dozen, 7 lbs. . . . . Per Dozen, $ 7 75
**No. 19**—Drew's. Weight per Dozen, 7 lbs. . . . . Per Dozen, 13 50

ALL ABOVE ONE DOZEN IN A WOODEN BOX

# SHIP CHANDLERY

## CALKING MALLETS

Nos. 100 to 00

| | |
|---|---|
| **No. 100**—White Oak, Varnished, Iron Rings. Weight per Dozen Net, 26 lbs. .Per Dozen, | $18 00 |
| **No. 50**—Live Oak, Polished Steel Rings. Weight per Dozen Net, 27 lbs.....Per Dozen, | 30 00 |
| **No. 00**—Live Oak, Polished Steel Rings. Weight per Dozen Net, 35 lbs.....Per Dozen, | 54 00 |

## HAWSING BEETLES

**No. 1**—Weight per Dozen Net, 83 lbs. Per Dozen, $36 00

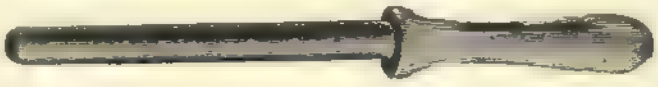
## SERVING MALLETS

| | | | |
|---|---|---|---|
| **No. 1**—Ash. | Weight per Dozen, 16 lbs. | Per Dozen, | $7 75 |
| **No. 2**—Ash. | Weight per Dozen, 24 " | " | 9 50 |
| **No. 3**—Ash | Weight per Dozen, 26 " | " | 10 90 |

## SERVING BOARDS

| | | | |
|---|---|---|---|
| **No. 1**—Ash. | Weight per Dozen, 12 lbs. | Per Dozen, | $ 7 90 |
| **No. 2**—Ash. | Weight per Dozen, 16 " . | " | 12 00 |

## BELAYING PINS



Malleable Iron, Galvanized

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Diameter of Shank, in. | 1 | 1⅛ | 1¼ |
| Length of Head, in. | 6½ | 7 | 8 |
| Extreme Length, in. | 15 | 16 | 19 |
| Weight per Dozen, lbs. | 30 | 42 | 60 |
| Per Dozen | $12 00 | 18 00 | 24 00 |

Oak

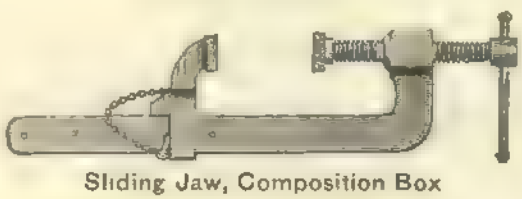
| Nos. | 10 | 11 | 12 | 13 |
|---|---|---|---|---|
| Diameter of Shank, in | ¾ | 1 | 1⅛ | 1¼ |
| Extreme Length in | 12 | 15 | 16½ | 19½ |
| Weight per Dozen Net, lbs. | 2 | 4 | 5 | 7 |
| Per Dozen | $2 00 | 2 25 | 2 50 | 3 00 |

## HAND FIDS

Polished Rock Maple

| Length, in. | 14 | 16 | 18½ |
|---|---|---|---|
| Weight per Dozen, lbs. | 4½ | 6 | 7 |
| Per Dozen | $9 00 | 10 80 | 12 60 |

## SHIP CLAMPS



Sliding Jaw, Composition Box

| Nos. | 10 | 11 | 12 |
|---|---|---|---|
| Screw, inch | 1 | 1¼ | 1½ |
| Bar, inch | 2¼x½ | 2¾x⅝ | 3¼x¾ |
| Opens, inch | 20x4 | 24x4½ | 36x5 |
| Weight Each, lbs. | 22 | 35 | 65 |
| Each | $13 50 | 18 00 | 24 00 |

# WOOD BENCH PLANES

### SMOOTH

**No. 03** Length 8 in., Double Iron, 2, 2⅛ and 2¼ in Wide. Weight Each, 3 lbs . . . . . Each, $0 90

### HANDLED SMOOTH

**No. 05** Length 10½ in., Double Iron, 2, 2⅛ and 2¼ in Wide. Weight Each, 3 lbs. . . . . Each, $1 75

### JACK

**No. 13**—Length 16 in., Double Iron, 2, 2⅛ and 2¼ in. Wide. Weight Each, 4½ lbs. . . . . Each, $1 00

### JACK-RAZEE

**No. 15** Length 16 in., Double Iron, 2, 2⅛ and 2¼ in. Wide. Weight Each, 4¼ lbs . . . . . Each, $1 20

### FORE

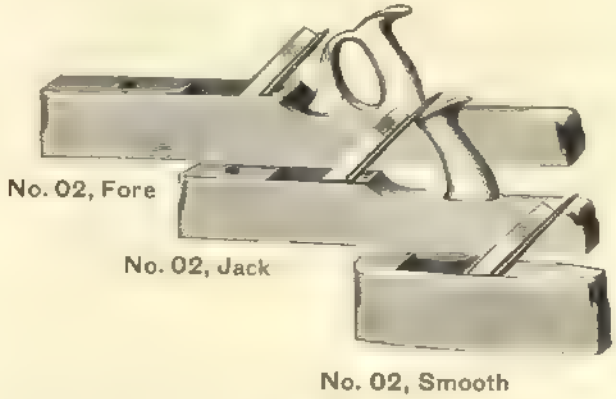
**No. 19** Length 22 in., Double Iron, 2⅛ and 2½ in Wide. Weight Each, 6 lbs . . . . . Each, $1 70

### JOINTER

**No. 25** Length 26 in., Double Iron, 2⅛ in. Wide. Weight Each, 10 lbs. . . . . Each, $1 80

**No. 25**—Length 28 in., Double Iron, 2⅜ in. Wide. Weight Each, 11 lbs. . . . . Each, 1 90

### SHIP




**No. 02—Smooth.** Length 9 in., Double Iron, 1¾ in. Wide. Weight Each, 2½ lbs. . . . . Each, $1 00
**No. 02—Jack** Length 16 in., Double Iron, 1⅝ and 2 in Wide. Weight Each, 4 lbs. . . . . " 1 20
**No. 02—Fore,** Length 22 in., Double Iron 2⅛ in Wide. Weight Each, 5½ lbs . . . . . " 1 90

ALL OF ABOVE PACKED AS WANTED.

SEATTLE HARDWARE COMPANY

# FANCY WOOD PLANES

RABBET

NOSING

**No. 148—Skew Rabbet**

| Size, in..... | ½ | ⅝ | ¾ | 1 | 1¼ | 1½ |
|---|---|---|---|---|---|---|
| Each ..... | $0 60 | 0 60 | 0 60 | 0 60 | 0 65 | 0 70 |

**No. 149 Jack Rabbet, Handled**

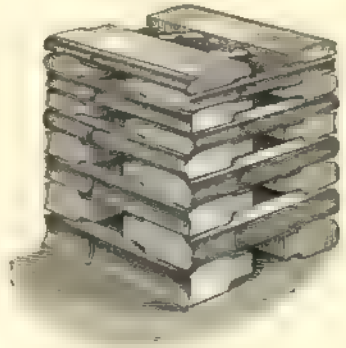
| Size, in..... | | 1¼ | 1½ | 2 |
|---|---|---|---|---|
| Top Handle. | .Each, | $1 90 | 1 90 | 1 90 |
| Side Handle..... | " | 1 90 | 1 90 | 1 90 |

**No. 113**—Two Irons, 1 and 1¼ in. Weight Each. 1¾ lbs.....Each, $1 10

**No. 113** Two Irons, 1½ in. Weight Each, 1⅞ lbs.....Each, 1 20

ALL OF ABOVE PACKED AS WANTED

## HOLLOWS AND ROUNDS



| Nos..... | 92-1 | 92-2 | 92-3 | 92-4 | 92-5 | 92-6 | 92-7 | 92-8 | 92-9 | 94-10 | 94-11 | 94-12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight per Pair, lbs. | 1½ | 1¾ | 1⅞ | 2 | 2¼ | 2½ | 2¾ | 2¾ | 3 | 3¼ | 3½ | 3⅞ |
| Works, in..... | ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1⅝ |
| Circle, in..... | ½ | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ |
| Per Pair..... | $1 00 | 1 00 | 1 00 | 1 00 | 1 00 | 1 00 | 1 15 | 1 15 | 1 15 | 1 35 | 1 35 | 1 35 |

# SARGENT IRON BENCH PLANES

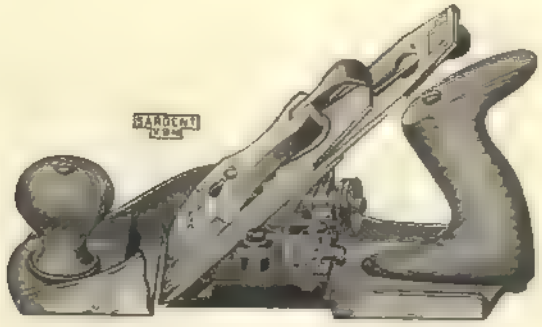
**Adjustable Smooth, Polished Trimmings, Mahogany Handle and Knob**

**No. 710** —Smooth Bottom, Length 10 in., Cutter 2 in.....Each, $3 60

**No. 710C**—Corrugated Bottom, Length 10 in., Cutter 2 in..... " 3 60

*RIGIDITY—The Frog is very rigid and the Frog and Bed at the mouth are in alignment so that the cutter has an even bearing down to the head of the cutter. The Plane combines solidity, compactness and simplicity. The meeting surfaces of the Frog and Bed are all machined so that the fit is absolute. SINGLE BIT—The Jewel Sheffield Steel Cutter is extra heavy and requires no cap, as the clamp acts as a breaker for the chip. SELF SETTING—The clamp is provided with a triangular gauge which is so drilled that the three sides of the triangle are different lengths from the center of the axis. Each triangle is stamped 1, 2 and 3 and by loosening the screw which sets on the triangle and turning to either 1, 2 or 3 at the side, the clamp is always set at just the same position after having removed it to grind the cutter. Thus when it is set at number 1, it is ready for a fine chip and breaks the chip at the proper angle. For a little coarser cut it should be set to number 2 gauge and for still coarser to number 3 gauge. EASE OF ADJUSTMENT—The lateral adjustment may be secured without removing the hand from the handle and the vertical adjustment, obtained through a direct-acting thumb-screw at the back of the cutter, is positive and rapid. PURPOSE—The Plane is intended for both heavy and very fine cuts. It is especially adapted for working against the grain on cross-grained hardwood where the absolute rigidity of the cutter avoids any tendency to chatter.*

# SARGENT IRON BENCH PLANES



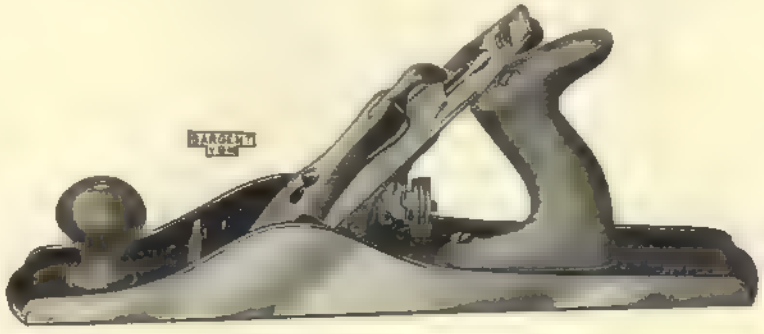
With Patent Frog, Adjustable without Removing Cutter.
Polished Trimmings, East India Mahogany Handle and Knob. Patent Side Adjustment for Exact Adjusting of Cutter with Face of Plane

**Smooth Bottom, Iron**

| No. | Length, In. | Cutter, In. | Wt. Each, Lbs. | Each |
|---|---|---|---|---|
| 7—Smooth, | 7 | 1⅝ | 2¾ | $3 00 |
| 8—Smooth, | 8 | 1¾ | 3½ | 3 30 |
| 9—Smooth, | 9 | 2 | 4¼ | 3 60 |
| 10—Smooth, | 10 | 2⅜ | 5¼ | 4 25 |
| 14—Jack, | 14 | 2 | 5½ | 4 25 |
| 15—Jack, | 15 | 2¼ | 6½ | 4 60 |
| 18—Fore, | 18 | 2⅜ | 8 | 5 25 |
| 22 Jointer, | 22 | 2⅜ | 9 | 6 10 |
| 24—Jointer, | 24 | 2⅝ | 10¾ | 7 25 |

**Corrugated Bottom, Iron**

| No. | Length, In. | Cutter, In. | Wt. Each, Lbs. | Each |
|---|---|---|---|---|
| 7C—Smooth, | 7 | 1⅝ | 2¾ | $3 00 |
| 8C—Smooth, | 8 | 1¾ | 3½ | 3 30 |
| 9C—Smooth, | 9 | 2 | 4¼ | 3 60 |
| 10C—Smooth, | 10 | 2⅜ | 5¼ | 4 25 |
| 14C—Jack, | 14 | 2 | 5½ | 4 25 |
| 15C—Jack, | 15 | 2¼ | 6½ | 4 60 |
| 18C—Fore, | 18 | 2⅜ | 8 | 5 25 |
| 22C—Jointer, | 22 | 2⅜ | 9 | 6 10 |
| 24C—Jointer, | 24 | 2⅝ | 10¾ | 7 25 |



Cut shows Corrugated Bottom.

Polished Trimmings, East India Mahogany Handle and Knob. Patent Side Adjustment for Exact Adjusting of the Cutter with the Face of the Plane.

**Smooth Bottom, Iron**

| No. | | | | | | Each |
|---|---|---|---|---|---|---|
| 407—Smooth, | Length | 7 in., | Cutter | 1⅝ in., | Weight Each 2¾ lbs | $2 75 |
| 408—Smooth, | " | 8 " | " | 1¾ " | " 3½ " | 3 00 |
| 409—Smooth, | " | 9 " | " | 2 " | " 4¼ " | 3 25 |
| 410—Smooth, | " | 10 " | " | 2⅜ " | " 5¼ " | 3 75 |
| 414—Jack, | " | 14 " | " | 2 " | " 5½ " | 3 75 |
| 415—Jack, | " | 15 " | " | 2¼ " | " 6 " | 4 20 |
| 418—Fore, | " | 18 " | " | 2⅜ " | " 8 " | 4 75 |
| 422—Jointer, | " | 22 " | " | 2⅜ " | " 8½ " | 5 50 |
| 424—Jointer, | " | 24 " | " | 2⅝ " | " 9¼ " | 6 50 |

**Corrugated Bottom, Iron**

| No. | | | | | | Each |
|---|---|---|---|---|---|---|
| 407C | Smooth, Length | 7 in., | Cutter | 1⅝ in., | Weight Each 2¾ lbs | $2 75 |
| 408C—Smooth, | " | 8 " | " | 1¾ " | " 3½ " | 3 00 |
| 409C—Smooth, | " | 9 " | " | 2 " | " 4¼ " | 3 25 |
| 410C—Smooth, | " | 10 " | " | 2⅜ " | " 5¼ " | 3 75 |
| 414C—Jack, | " | 14 " | " | 2 " | " 5½ " | 3 75 |
| 415C Jack, | " | 15 " | " | 2¼ " | " 6 " | 4 20 |
| 418C Fore, | " | 18 " | " | 2⅜ " | " 8 " | 4 75 |
| 422C—Jointer, | " | 22 " | " | 2⅜ " | " 8½ " | 5 50 |
| 424C—Jointer, | " | 24 " | " | 2⅝ " | " 9¼ " | 6 50 |

EACH IN A PAPER BOX

SEATTLE HARDWARE COMPANY

# SARGENT WOOD-BOTTOM PLANES

With Patent Side Adjustment for exact adjusting of the Cutter with the face of the Plane

### Smooth

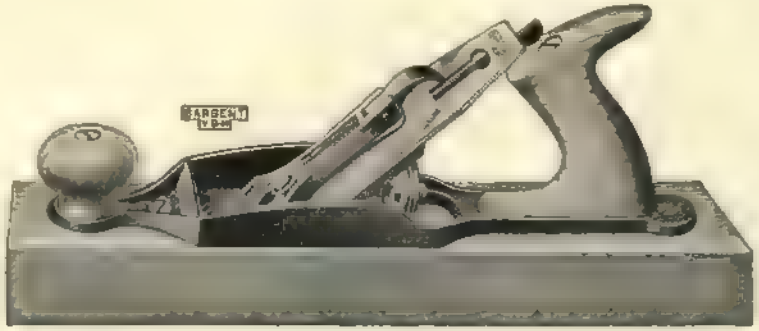
With Screw Adjustment.

| No. | Length. | Cutter. | Weight. | | Each |
|---|---|---|---|---|---|
| 3409— | 9 in. | 1¾ in. | 3¼ lbs. | ..... | $2 00 |
| 3410— | 8 in. | 2 in. | 3 lbs. | ..... | 2 00 |

### Handled Smooth

With Screw Adjustment.

| No. | Length. | Cutter. | Weight. | | Each |
|---|---|---|---|---|---|
| 3411— | 9 in. | 2 in. | 3½ lbs. | ..... | $2 50 |
| 3412— | 10 in. | 2⅜ in. | 4½ lbs. | ..... | 2 75 |



### Jack, Fore and Jointer

With Screw Adjustment.

| No. | | | | | | | | | Each |
|---|---|---|---|---|---|---|---|---|---|
| 3415—Jack, | Length | 15 | in., | Cutter | 2 | in., | Weight | Each 4¼ lbs | $2 25 |
| 3416—Jack, | " | 15 | " | " | 2⅛ | " | " | 4½ " | 2 50 |
| 3418—Fore, | " | 18 | " | " | 2⅜ | " | " | 6¼ " | 2 75 |
| 3422—Jointer, | " | 22 | " | " | 2⅜ | " | " | 6¾ " | 3 00 |
| 3424—Jointer, | " | 24 | " | " | 2⅜ | " | " | 7 " | 3 00 |
| 3430—Jointer, | " | 30 | " | " | 2⅝ | " | " | 8 " | 3 50 |

# SARGENT BLOCK PLANES

No. 105 Japanned Finish, 3½ in Long, 1 in Cutter. Each $0 33

No. 106 Adjustable, 5½ in, Cutter 1⅝ in, Weight 1 lb. Each $0 55

No. 107—Adjustable, 7½ in, Cutter 1⅝ in., Weight 1½ lbs. Each $0 70

No. 227—Double End, Adjustable, 7¾ in., 1⅝-in. Cutter, Weight 2 lbs. Each $1 00

No. 206—Screw Adjustment, 5½ in, Cutter 1⅝ in, Weight 1 lb. Each $0 70

No. 208—Screw Adjustment, 7½ in., Cutter 1⅝ in., Weight 1¾ lbs. Each $0 95

No. 217—Screw Adjustment, 7½ in, Cutter 1⅝ in, Weight 1½ lbs. Each $1 00

Knuckle Joint, Adjustable Mouth, Screw Adjustment

| No. | Length. | Cutter. | | Each. |
|---|---|---|---|---|
| 4306 | 6 in | 1⅝ in. | Polished Trim | $1 60 |
| 4307 | 7 in | 1⅝ in. | Polished Trim | 1 70 |
| 5306 | 6 in | 1⅝ in. | Nickel Trim | 1 85 |
| 5307 | 7 in | 1⅝ in. | Nickel Trim | 1 95 |

WEIGHT EACH 1⅝ LBS

Screw Adjustment, Adjustable Mouth.

| No. | Length. | Cutter | | Each |
|---|---|---|---|---|
| 306 | 6 in. | 1⅝ in. | Polished Trim | $1 60 |
| 307 | 7 in. | 1⅝ in. | Polished Trim | 1 70 |
| 1306 | 6 in. | 1⅝ in. | Nickel Trim | 1 75 |
| 1307 | 7 in. | 1⅝ in. | Nickel Trim | 1 85 |

WEIGHT EACH 1⅝ LBS

Screw Adjustment, Adjustable Mouth with Mahogany Handle.

| No. | Length. | Cutter. | | Each. |
|---|---|---|---|---|
| 316 | 6 in. | 1⅝ in. | Polished Trim | $1 85 |

WEIGHT EACH 1⅝ LBS

Low Angle, Screw Adjustment, Adjustable Mouth.

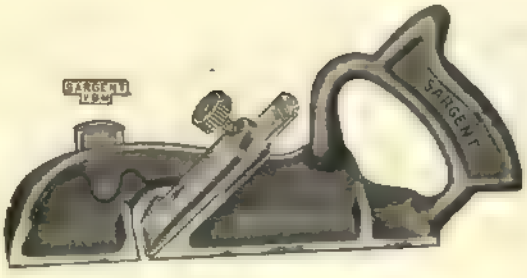
| No. | Length. | Cutter. | | Each |
|---|---|---|---|---|
| 606 | 6 in. | 1⅜ in. | Polished Trim | $1 70 |
| 607 | 7 in | 1⅝ in. | Polished Trim. | 1 80 |
| 1606 | 6 in | 1⅜ in. | Nickel Trim | 1 90 |
| 1607 | 7 in | 1⅝ in. | Nickel Trim | 2 10 |

WEIGHT EACH 1⅝ LBS

ALL ABOVE EACH PLANE IN A BOX EXCEPT NO. 105 SIX IN A BOX

SEATTLE HARDWARE COMPANY

# SARGENT IRON PLANES




**Rabbet Plane**

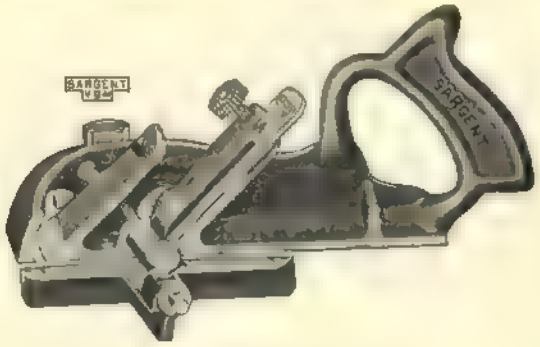
With Depth Gauge, Japanned.

| No. | Length | Cutter | Weight | Each. |
|---|---|---|---|---|
| 186 | 8 in. | 1 in. | 2½ lbs. | $1 90 |
| 187 | 8 in. | 1¼ in. | 2¾ lbs. | 1 90 |
| 188 | 8 in. | 1½ in. | 3 lbs. | 1 90 |

**Rabbet Plane**

With Depth Gauge and Spur, Japanned.

| No. | Length. | Cutter | Weight | Each |
|---|---|---|---|---|
| 196— | 8 in. | 1 in. | 2½ lbs. | $2 10 |
| 197— | 8 in. | 1¼ in. | 2¾ lbs. | 2 10 |
| 198— | 8 in. | 1½ in. | 3 lbs. | 2 10 |



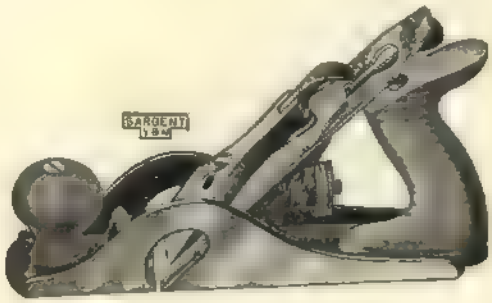

**Rabbet and Filletster Plane**

With Depth Gauge and Spur and Removable Arm and Fence.

| No. | Length. | Cutter. | Each. |
|---|---|---|---|
| 79— | 8½ in. | 1½ in. | $2 70 |

*Two seats for cutter, making a Bull-Nose Rabbet. Arm and Fence can be placed on either side of plane, making a Right or Left-hand Filletster.*

WEIGHT EACH 3¼ LBS.




**Carriage-Makers' Rabbet Plane**

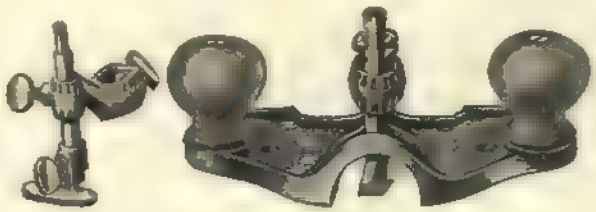
Patent Side Adjustment. East India Mahogany Handle and Knob.

| No. | Length | Cutter | Each |
|---|---|---|---|
| 29 — | 9 in. | 2⅛ in. Smooth Bottom | $4 30 |
| 30 | 13 in. | 2⅛ in. Smooth Bottom | 5 20 |
| 29C— | 9 in. | 2⅛ in. Corrugated Bottom | 4 30 |
| 30C— | 13 in. | 2⅛ in. Corrugated Bottom | 5 20 |

WEIGHT NO. 29 3¾ LBS., NO. 30 4½ LBS.

**Bull-Nose Rabbet Plane**

| No. | | Each |
|---|---|---|
| 505 | —Japanned Finish, Length 4 in., 1-in. Cutter, Weight ¾ lbs. | $0 55 |

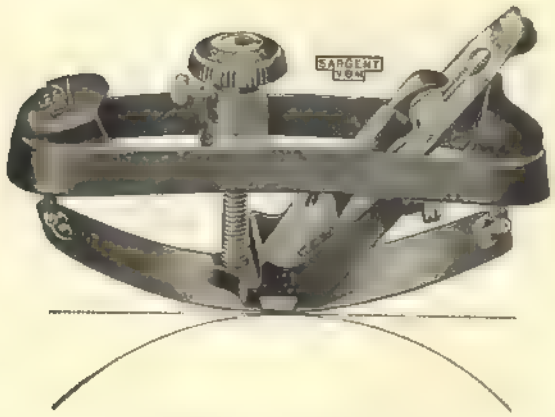


**Router Plane, Open Throat, Screw Adjustment**

| No. | | Each |
|---|---|---|
| 62 | —With Two Cutters ¼ and ½ in., with Extra Attachment for Closing Throat, Nickel-Plated Finish, Weight 2½ lbs. | $2 50 |

| | | Each |
|---|---|---|
| Extra | —Cutters for Router Planes ¼ and ½ in. | $0 40 |

# SARGENT IRON PLANES

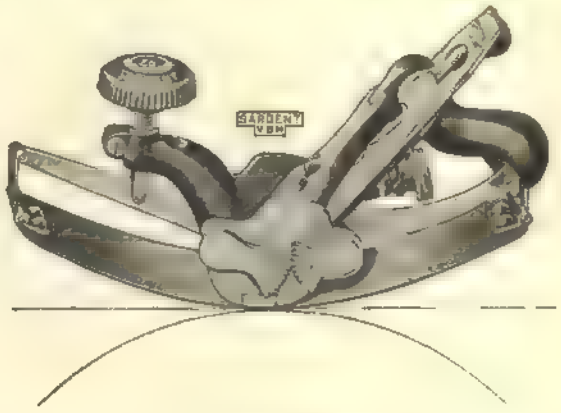



### Circular Plane

Accurately set and firmly held in position by the Knob and Set-Screw, Length 10 in., Cutter 1¾ in.

| No. | | Each. |
|---|---|---|
| 74— | Japanned Finish | $5 50 |

EACH IN A BOX. WEIGHT 4½ LBS.

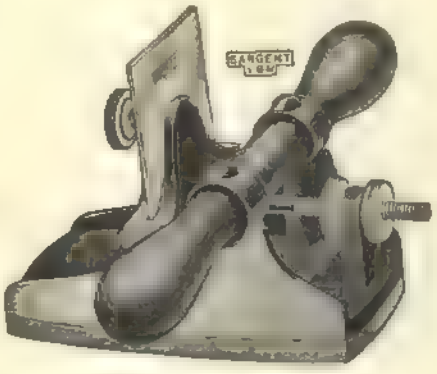



### Circular Plane

Has Graduated Scale. Can be accurately set to plane the arc of the same circle both concave and convex. Length 10 in., Cutter 1¾ in.

| No | | Each |
|---|---|---|
| 76— | Japanned Finish | $5 50 |

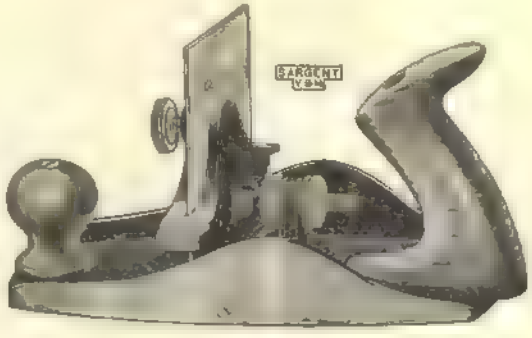
EACH IN A BOX. WEIGHT 4 LBS.




### Scraper Plane

Adjustable, Polished Trimmings, Double Cocobolo Handles.

| No. | | Cutter. | Weight. | Each. |
|---|---|---|---|---|
| 42— | Iron Face | 3 in. | 4¾ lbs. | $3 50 |
| 43— | Wood Face | 3 in. | 5¾ lbs. | 5 00 |

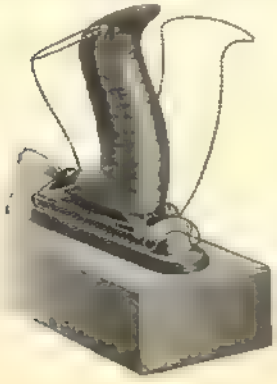



### Scraper Plane

Adjustable, Polished Trimmings, Mahogany Handle and Knob.

| No. | Length. | Cutter. | Weight. | Each. |
|---|---|---|---|---|
| 59— | 9 in. | 2½ in. | 4½ lbs. | $3 50 |

**Extra**—Cutters for Scraper Planes 2½ and 3 in. Each. $0 35



### Sargent Adjustable Plane Handles

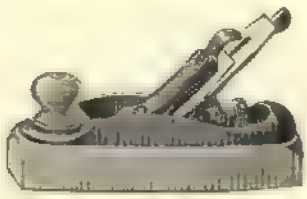
Can be applied to any of Sargent & Co's. Wood Bottom Planes and to all Iron Bench Planes excepting Nos. 7 and 407.

Can be applied to planes of other makes by using a screw with the proper thread to attach the bottom plate of the handle to the plane bed. The screws sent with the handle are suitable for planes of some manufacturers.

| No. | | Per Dozen. |
|---|---|---|
| 400— | East India Mahogany Handle, Japanned Mountings | $8 10 |

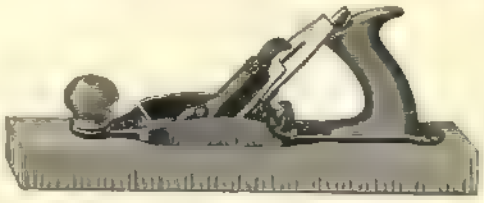
# STANLEY ADJUSTABE PLANES

## BAILEY WOOD BOTTOM BENCH



**No. 22**—Smooth, Length 8 in., Cutter $1^{3}/_{4}$ in. Weight Each, 3 lbs. . . Each, $1 50
**No. 24**—Smooth. Length 8 in., Cutter 2 in. Weight Each, $3^{1}/_{4}$ lbs. Each, 1 50

**No. 35**—Handle Smooth, Length 9 in., Cutter 2 in. Weight Each, $4^{3}/_{4}$ lbs. . . . . Each, $1 90
**No. 36**—Handle Smooth. Length 10 in., Cutter $2^{3}/_{8}$ in. Weight Each, 5 lbs. . . Each, 2 05



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **No. 26** | Jack, | Length 15 in., | Cutter 2 | in. | Weight Each, | 5 | lbs . . . . . | Each, | $1 65 |
| **No. 27** | " | " 15 " | " $2^{1}/_{16}$ | " | " | 5 | " | " | 1 90 |
| **No. 27½** | " | " 15 " | " $2^{1}/_{4}$ | " | " | 6 | " | " | 1 95 |
| **No. 28** | Fore. | " 18 " | " $2^{3}/_{8}$ | " | " | $6^{3}/_{4}$ | " | " | 2 05 |
| **No. 29** | " | " 20 " | " $2^{3}/_{8}$ | " | " | $7^{1}/_{4}$ | " | " | 2 10 |
| **No. 30** | Jointer. | " 22 " | " $2^{3}/_{8}$ | " | " | 8 | " | " | 2 20 |
| **No. 31** | " | " 24 " | " $2^{3}/_{8}$ | " | " | $8^{1}/_{2}$ | " | " | 2 25 |
| **No. 32** | " | " 26 " | " $2^{5}/_{8}$ | " | " | 9 | " | " | 2 40 |
| **No. 33** | " | " 28 " | " $2^{5}/_{8}$ | " | " | $9^{1}/_{4}$ | " | " | 2 45 |

## BAILEY IRON BOTTOM BENCH

### Smooth Bottom

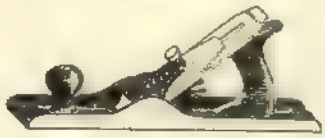
| No. | | Length | Cutter | Weight | Each |
|---|---|---|---|---|---|
| **2** | —Smooth, | 7 in. | $1^{5}/_{8}$ in. | $2^{1}/_{4}$ lbs | $2 00 |
| **3** | — " | 8 " | $1^{3}/_{4}$ " | $3^{1}/_{8}$ " | 2 10 |
| **4** | " | 9 " | 2 " | $3^{1}/_{4}$ " | 2 20 |
| **4½** | " | 10 " | $2^{1}/_{8}$ " | $4^{1}/_{8}$ " | 2 50 |
| **5** | Jack, | 14 " | 2 " | $4^{1}/_{4}$ " | 2 50 |
| **5½** | " | 15 " | $2^{1}/_{4}$ " | $6^{3}/_{4}$ " | 3 00 |
| **6** | —Fore, | 18 " | $2^{3}/_{8}$ " | $7^{3}/_{4}$ " | 3 25 |
| **7** | —Jointer, | 22 " | $2^{3}/_{8}$ " | $8^{1}/_{2}$ " | 3 75 |
| **8** | — " | 24 " | $2^{5}/_{8}$ " | $9^{3}/_{4}$ " | 4 50 |

### Corrugated Bottom

| No. | | Length | Cutter | Weight | Each |
|---|---|---|---|---|---|
| **2C** | —Smooth, | 7 in. | $1^{5}/_{8}$ in. | $2^{1}/_{4}$ lbs | $2 00 |
| **3C** | — " | 8 " | $1^{3}/_{4}$ " | $3^{1}/_{8}$ " | 2 10 |
| **4C** | " | 9 " | 2 " | $3^{1}/_{4}$ " | 2 20 |
| **4½C** | — " | 10 " | $2^{1}/_{8}$ " | $4^{1}/_{8}$ " | 2 50 |
| **5C** | —Jack, | 14 " | 2 " | $4^{1}/_{4}$ " | 2 50 |
| **5½C** | " | 15 " | $2^{1}/_{4}$ " | $6^{1}/_{4}$ " | 3 00 |
| **6C** | —Fore, | 18 " | $2^{3}/_{8}$ " | $7^{3}/_{4}$ " | 3 25 |
| **7C** | —Jointer, | 22 " | $2^{3}/_{8}$ " | $8^{1}/_{4}$ " | 3 75 |
| **8C** | — " | 24 " | $2^{5}/_{8}$ " | $9^{3}/_{4}$ " | 4 50 |

ALL OF ABOVE ONE IN A BOX

## STANLEY STEEL BOTTOM BENCH

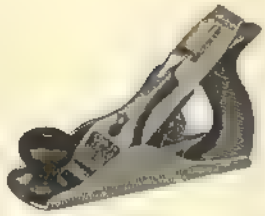


**No. 104**—Smooth, Length 9 in., $2^{1}/_{8}$-in. Cutter, Weight $5^{1}/_{8}$ lbs. . . . . Each, $2 05
**No. 105**—Jack, " 14 " $2^{1}/_{8}$ " " " $8^{3}/_{8}$ " . . . . . " 2 60

*These Planes (Nos. 104 and 105) are in demand for outdoor work, where tools are liable to fall or get knocked around. The bottom and sides are one piece of pressed steel, making them practically unbreakable. Cutters are double type, adjustable endwise.*

# STANLEY ADJUSTABLE PLANES

## BED ROCK, SMOOTH BOTTOM, IRON BENCH



**No. 603**—Smooth; Length, 8 in.; Cutter, 1¾ in. Weight Each, 3½ lbs.....Each, $2 30

**No. 604**—Smooth; Length, 9 in.; Cutter, 2 in. Weight Each, 3¾ lbs.....Each, 2 50

**No. 605**—Jack; Length, 14 in.; Cutter, 2 in. Weight Each, 4¾ lbs.....Each, $3 00

**No. 606**—Fore; Length, 18 in.; Cutter, 2⅜ in. Weight Each, 7½ lbs.....Each, 3 75

**No. 608**—Jointer; Length, 24 in.; Cutter 2⅜ in. Weight Each, 9½ lbs.....Each, 5 25

## BED ROCK, CORRUGATED BOTTOM, IRON BENCH

**No. 603C**—Smooth; Length, 8 in.; Cutter, 1¾ in.; Weight Each, 3½ lbs.....Each, $2 30
**No. 604C**—Smooth; Length, 9 " Cutter, 2 " Weight Each, 3¾ lbs..... " 2 50
**No. 605C**—Jack; Length, 14 " Cutter, 2 " Weight Each, 4¾ lbs..... " 3 00
**No. 606C**—Fore; Length, 18 " Cutter, 2⅜ " Weight Each, 7½ lbs..... " 3 75
**No. 608C**—Jointer; Length, 24 " Cutter, 2⅜ " Weight Each, 9½ lbs..... " 5 25

## STANLEY BLOCK

**Non-Adjustable**

**No. 101** Length, 5½ in.; Cutter, 1 in. Weight Each, ¾ lb.....Each, $0 20

**Non-Adjustable**

**No. 100** Handled, Length, 5½ in.; Cutter, 1 in. Weight Each, ¾ lb.....Each, $0 25

**Non-Adjustable**

**No. 102** Length, 5½ in., Cutter, 1⅜ in. Weight Each, 1 lb.....Each, $0 40

**Non-Adjustable**

**No. 103** Length, 7½ in.; Cutter, 1¾ in. Weight Each, 1 lb.....Each, $0 55

**Adjustable**

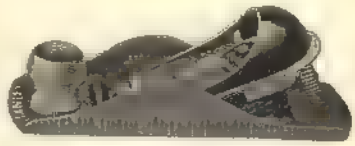
**No. 110** Length, 7½ in.; Cutter, 1⅝ in. Weight Each, 1¾ lbs.....Each, $0 55

**Lever Adjustment**

**No. 120**—Length, 7½ in.; Cutter, 1⅝ in. Weight Each, 1¾ lbs.....Each, $0 75

**Adjustable**

**No. 130** Double Ender, Length, 8 in.; Cutter, 1⅝ in. Weight Each, 2 lbs.....Each $0 75



**Adjustable**

**No. 220**—Length, 7½ in.; Cutter, 1⅝ in. Weight Each, 1¾ lbs.....Each, $0 75

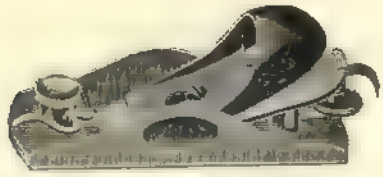
*Plane No. 130 has two slots, and two cutter seats. It can be used as a Block Plane, or, by reversing the position of the cutter and the clamping wedge (see dotted lines in the engraving), it can be used to plane close up into corners, or places difficult to reach with any other plane.*

ALL OF ABOVE ONE IN A BOX

SEATTLE HARDWARE COMPANY

# STANLEY ADJUSTABLE PLANES

## BAILEY BLOCK

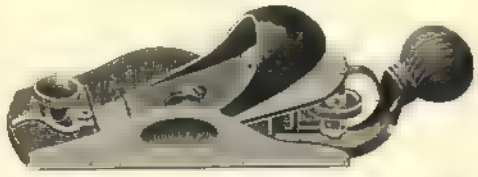


**No. 9½**—Length 6 in., Cutter 1⅝ in., Japan Trim. Weight Each, 1½ lbs.....Each, $1 10

**No. 15**—Length 7 in., Cutter 1⅝ in., Japan Trim. Weight Each, 1⅝ lbs.....Each, 1 20

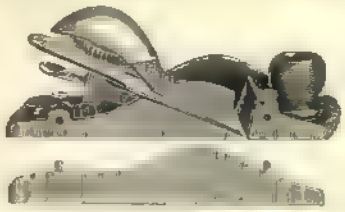
**No. 16**—Length 6 in., Cutter 1⅝ in., Nickel Trim. Weight Each, 1½ lbs.....Each, 1 25

## BAILEY BLOCK



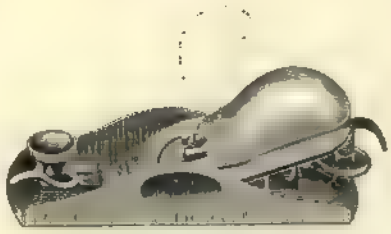
**No. 9½**—Rosewood Handle, Length 6 in., Cutter 1⅝ in., Japan Trim. Weight Each, 2½ lbs.....Each, $1 30

## STANLEY RABBET AND BLOCK



**No. 140**—Detachable Side, Length 7 in., Cutter 1¾ in. Weight Each, 2 lbs. .Each, $1 40

*A detachable side will easily change this tool from a block plane to a rabbet plane, or vice versa. The cutter is set on a skew*



**No. 18**—Knuckle Joint, Length 6 in., Cutter 1¾ in. Weight Each, 2¼ lbs.....Each, $1 30

**No. 19**—Knuckle Joint, Length 7 in., Cutter 1¾ in. Weight Each, 2½ lbs.....Each, 1 40

## STANLEY LOW ANGLE BLOCK

Adjustable

**No. 60**—Nickel Trimmings, Length 6 in., Cutter 1⅝ in. Weight Each, 2¼ lbs....Each, $1 25

**No. 65**—Nickel Trimmings, Length 7 in., Cutter 1⅝ in. Weight Each, 2½ lbs....Each, 1 35

**No. 65½**—As No. 65, but Japanned Trimmings, " 1 20

## SIDE RABBET

No. 98—Right

No. 99—Left

**No. 98**—R.H., Length 4 in., ½ in. Cutter, Weight 1 lb.....Each, $1 00

**No. 99**—L.H., Length 4 in., ½ in. Cutter, Weight 1 lb.....Each, 1 00

## BULL-NOSE RABBET

**No. 75**—Iron Stock, Length 4 in., Cutter 1 in Weight Each, 1 lb.....Each, $0 40

**No. 90** Length 4 in., Cutter 1 in., Weight Each, 1½ lbs.....Each, $2 20

## CARRIAGE MAKERS' RABBET

**No. 10½**—Length 9 in., Cutter 2⅛ in. Weight Each, 4¼ lbs.....Each, $2 75

**No. 10**—Length 13 in., Cutter 2⅛ in. Weight Each, 5½ lbs.....Each, 3 30

## IMPROVED RABBET

**No. 190**—With Spur, Length 8 in., Cutter 1½ in. Weight Each, 3¼ lbs.....Each, $1 25

**No. 191**—With Spur, Length 8 in., Cutter 1¾ in. Weight Each, 3 lbs.....Each, 1 25

# STANLEY ADJUSTABLE PLANES

## DUPLEX RABBET PLANE AND FILLETSTER

**No. 78**—Iron Stock and Fence, Length 8½ in., Cutter 1¼ in Weight Each, 4 lbs., Each. $1 65

*Remove the arm to which the fence is secured, and a handled rabbet plane is had, and with two seats for the cutter, so that the tool can be used as a ball nose rabbet if required.*

*The construction of the stock is such that the plane will lie perfectly flat on either side and can be used with right or left hand equally well while planing into corners or up against perpendicular surfaces.*

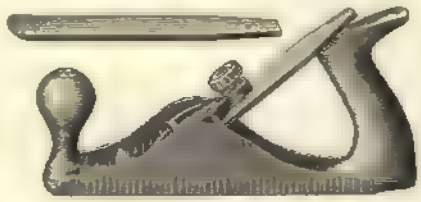
*The arm to which the fence is secured can be screwed into either side of the stock, thus making a superior right or left-hand filletster, with adjustable spur and depth gauge.*

## CABINET-MAKER'S EDGE

**No. 97**—Length 10 in., Cutter 2¼ in. Weight Each, 3¾ lbs.....Each, $2 20

*For piano-makers and cabinet-workers. It has a cutter resting on a solid bed practically its entire length. The cutting edge being located at the extreme end of the plane gives the tool the leverage of a chisel. No other plane can be worked in such a small space or so close up into corners. The cutter is adjustable endwise.*

## IMPROVED SCRUB PLANE



**No. 40** Iron Stock, Length 9½ in., Cutter 1¼ in Weight Each, 2 lbs. . . Each. $1 10

*This tool has a single iron with the cutting edge rounded, and is particularly adapted for roughing down work before using a jack or other plane.*

## LOW ANGLE JACK

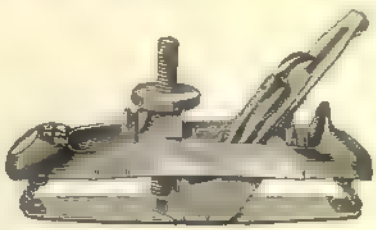
**No. 62**—Length 14 in., Cutter 2 in Weight Each, 5 lbs.....Each, $2 85

*This plane is especially adapted for use in cutting across the grain on heavy work, where more power is required than can be obtained by the use of the ordinary block plane. The plane is fitted with patent adjustable throat which enables the user to work equally well on hard or soft wood.*

## CIRCULAR

**No. 113** Adjustable Circular. Cutter 1¼ in Weight Each, 5 lbs.....Each, $8 00

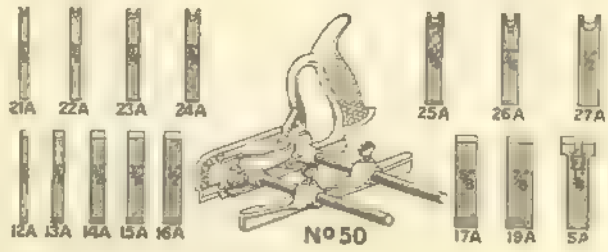
*This plane has a flexible steel face, which can be easily shaped to any required arc, either concave or convex, by turning the knob on the front of the plane.*



**No. 20½** Japanned, Cutter 1¼ in Weight Each, 5 lbs.....Each, $3 50

*The flexible steel face of this plane can be made concave or convex, by turning the screw which is attached to its center.*

## PLOW, BEADING AND MATCHING PLANE



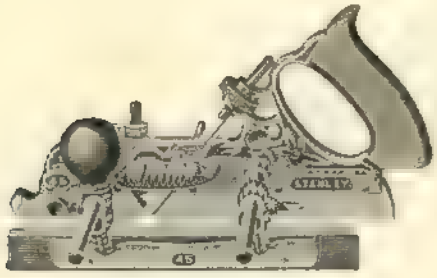

**No. 50**—9¼ in., Nickel Plated, 15 Cutters, Weight 3¾ lbs.....Each, $5 00

*A handy tool for light work. Consists of main stock, carrying a spur and depth gauge and forming a support for one side of the cutter, and a fence with a 5-in. adjustment. The cutters consist of 7 plow and dado bits, ¼, 5/16, ⅜, 7/16, ½, ⅝ and ¾; 7 beading tools, ⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½ in., and ¼-in. tonguing tool.*

SEATTLE HARDWARE COMPANY

# STANLEY ADJUSTABLE PLANES

## COMBINED BEADING, RABBET AND SLITTING

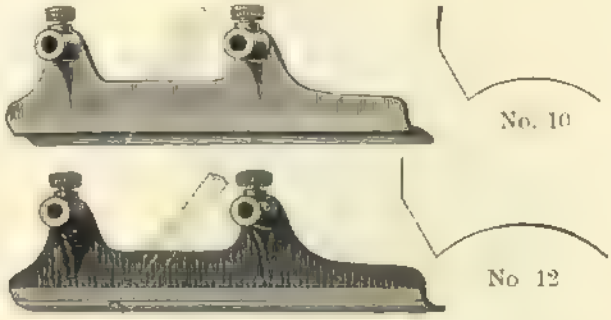


**No. 45**—Nickel Plated, with Twenty Tools, Bits, etc. Weight Each, 10¼ lbs.....Each, $9 00

*This Plane embraces (1) Beading and Center Beading Plane; (2) Rabbet and Filletster, (3) Dado or Plow, (4) Matching Plane (5) Sash Plane; and (6) a superior Slitting Plane.*

*Each Plane has seven Beading Tools ³⁄₁₆, ⁵⁄₁₆, ¼, ⁷⁄₁₆, ⁹⁄₁₆, ⁷⁄₁₀, and ½ inch; ten Plow and Dado Bits ³⁄₁₆, ⁵⁄₁₆, ¼, ⁵⁄₁₆, ⅜, ⅞, ½, ⅝, ¾ and ⅞ inch), a Slitting Blade, a Tonguing Tool and a Sash Tool*

*A removable Rosewood Face is attached to the Fence.*

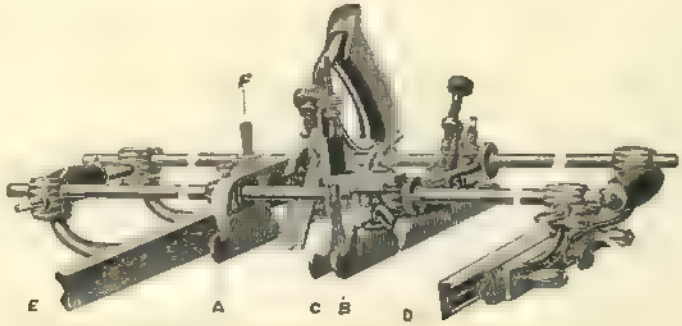



### Hollows and Rounds for No. 45 Plane

| No. | | Per Pair |
|---|---|---|
| 8 | —Hollow and Round, ⅛ in Cutters, 1 in Circle | $1 40 |
| 10 | —Hollow and Round, ¾ in Cutters, 1¼-in. Circle | 1 40 |
| 12 | Hollow and Round, 1 in Cutters, 1¼ in Circle | 1 50 |

*The Hollow and its Cutters will form a Round in the moulding being worked. A Round and its Cutters form a Hollow. These are specially formed bottoms, which are substituted for the sliding section for No. 45 Plane.*

## PATENT UNIVERSAL

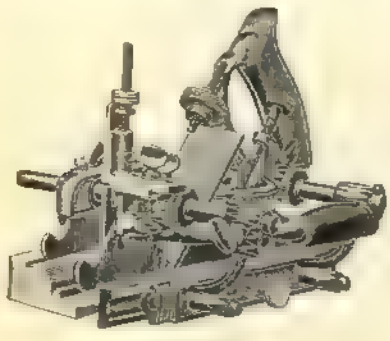



This Two, in the hands of an ordinary carpenter can be used for all lines of work covered by a full assortment of so-called Fancy Planes.

### Nickel Plated

**No. 55**—Stanley's Universal Plane, with 52 Tools, Bits, etc. Weight Each, 18 lbs.....Each, $14 00

*This Plane consists of a Main Stock (A) with two sets of Transverse Sliding Arms, a Depth Gauge (F) adjusted by a screw and a Slitting Cutter with stop, a Sliding Section (B) with a vertically adjustable bottom. The Auxiliary Center Bottom (C) is to be placed in front of the Cutter as an extra support, or stop, when needed. This bottom is adjustable both vertically and laterally. Fence (D) has a lateral adjustment by means of a screw, for extra fine work. The Fences can be used on either side of the Plane, and the Rosewood Guides can be tilted to any desired angle up to 45 degrees by loosening the screws on the face. Fence (E) can be reversed for center beading grade boards. An adjustable stop to be used in beading the edges of matched boards is inserted on left side of sliding section (B).*



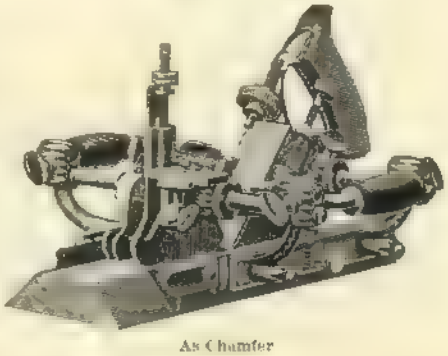
As Moulding

### Directions

*MOULDING PLANE.—Insert the desired Cutter, and adjust bottom of Sliding Section (B) to conform to the shape of the Cutter; then, fasten this Section firmly by means of the check-nuts on the transverse arms. When needed, adjust Auxiliary Center Bottom (C) for an additional support in front of the Cutter. By tilting the rosewood guides on Fences (D and E), mouldings of various angles may be formed.*

*MATCH, SASH, BEADING, REEDING, FLUTING, HOLLOW, ROUND, PLOW, RABBET AND FILLETSTER PLANE.—Use in same manner as for Mouldings. In working Match and Sash Cutters, the Auxiliary Center Bottom (C) may be used as a stop.*

*DADO.—Remove the Fences (D and E), and set the spurs parallel with the edges of Cutter. Insert long Adjustable Stop on left-hand side of Sliding Section.*



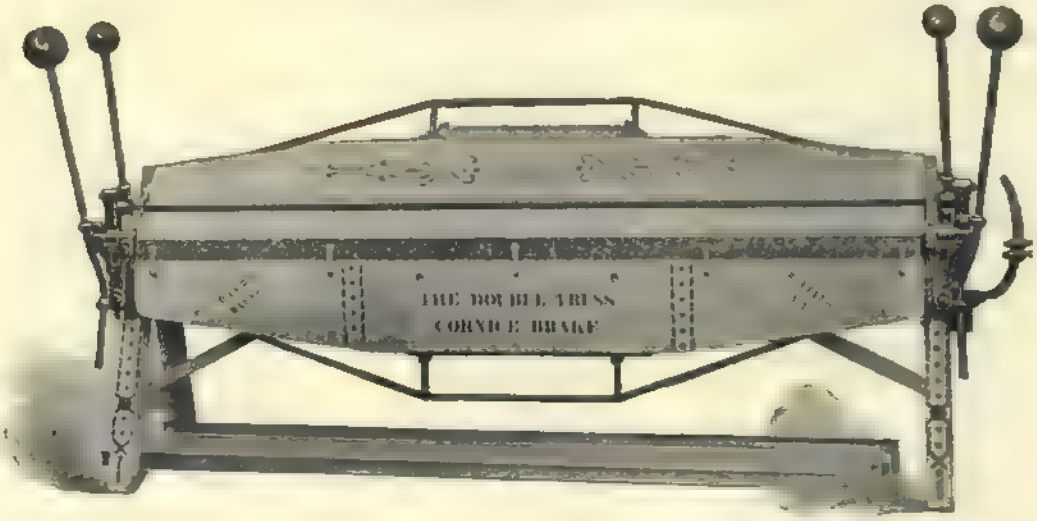
As Chamfer

*SLITTING PLANE.—Insert the Cutter and Stop on right-hand side of Main Stock and use Fence D or E for guide.*

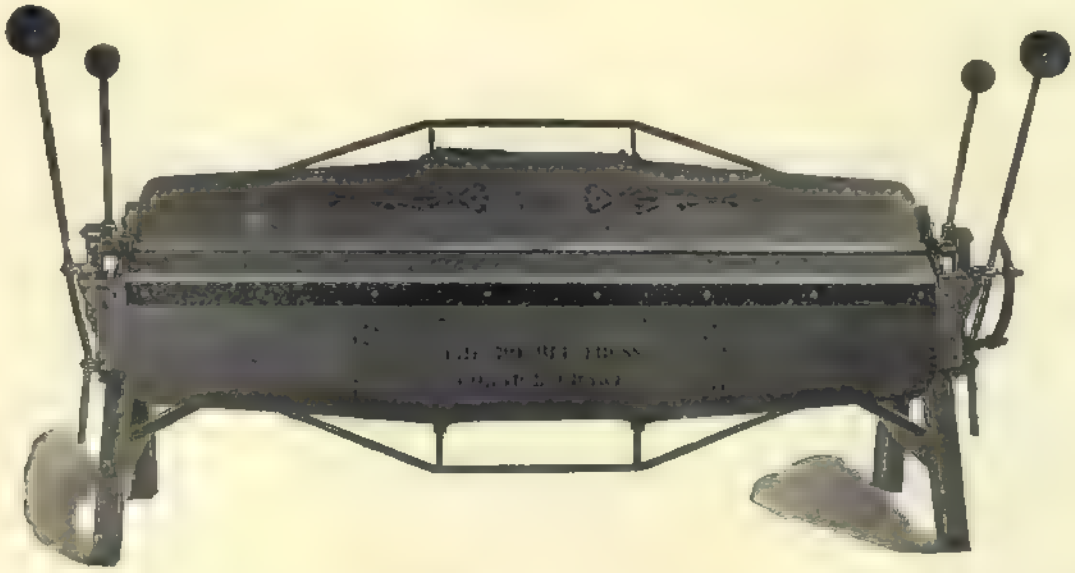
*CHAMFER.—Insert the desired Cutter, fasten a Fence on each side of the Plane and tilt the rosewood guides to the desired angle.*

# TINNERS' TOOLS

## DOUBLE TRUSS CORNICE BRAKES




*No. 8—Bending Edge 8 ft. 1 in. Long, ½ in. Wide, will Form No. 22 Gauge Full Length Weight Each, 1025 lbs . . . . . ...Each, $115 00



*No. 18—Bending Edge 8 ft. 1 in. Long, ½ in Wide, will Form No. 16 Gauge Full Length. Weight Each, 1225 lbs... . . . . ...Each, $132 00

*The above Brakes are operated by hand power on the same principal, and do the same work, both in quality and quantity, as the All-Metal Machines. The material to be formed is clamped between the upper and lower jaws and bent by the front or bending leaf to the desired angle. Curves are formed by bending the material over half-round formers attached to the front leaf. Both the mechanism and material of which these brakes are constructed are entirely different from the All Metal Machines. They are the most simply constructed cornice brakes manufactured. They are strong, durable, easily operated, and have no springs or complicated parts to get out of order, and many valuable features not found in any other brake on the market. They are especially valuable to contractors, owing to the fact that they are all portable, being easily and cheaply transported to any place where they may be useful, enabling the contractor to have the brake close to the building in course of construction, and have the work formed up right on the premises, which saves a large amount of freight and expense of handling formed-up work, and the risk of damage in transit.*

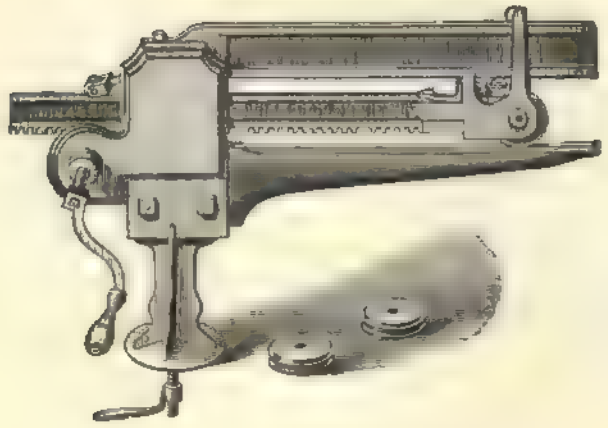
*These Brakes will bend or form sheet metal to almost any angle or curve, or any combination of angles or curves, not only on the edge of the material, but at any distance from the edge, either crosswise or lengthwise of the sheet, which cannot be done with any other machine or combination of machines.*

*We recommend them to Sheet Metal Contractors, Tinsmiths, Jobbers, Furnace Men, Refrigerator and Trunk Manufacturers, Stove and Range Makers, Railroad Shops, etc.*

**Not carried in stock. Lists are f.o.b. factory.*

# TINNERS' TOOLS

## GROOVING MACHINE



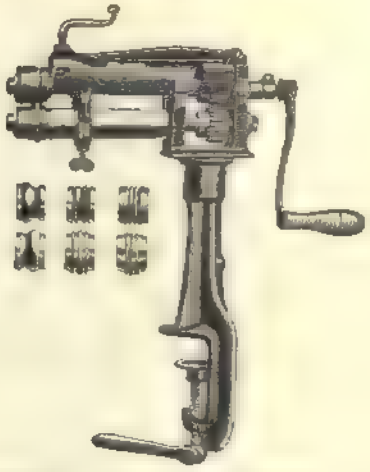
### Brass Mounted Groovers

For No. 24 Iron and Lighter.

**No. 01**—20 in., with Standard. Weight Each, 100 lbs.....Each, $21 00

*Constructed with steel bar and milled bars. They will be found serviceable for grooving the seams on bodies of tin cans, pails, boilers, pans, etc. They are easy to operate and simple in construction. Three grooving rolls, one each ⅛, 5/32 and 7/32, are furnished.*

## BEADING MACHINE



### Adjustable Boxes and Duplicate Parts

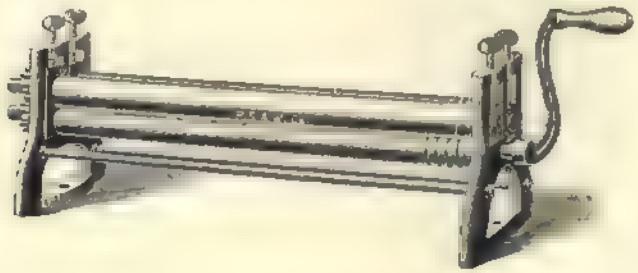
**No. 4**—6 in., Four Pairs Rollers and Rotary Standard. Weight Each, 50 lbs.. Each, $29 65

*Size of beads as follows: Ogee ¾ in., triple bead ⅝ in., triple coffee pot ½ in., single 3/16 in.*

**No. 5**—4 in., Five Pairs Rollers and Rotary Standard. Weight Each, 37 lbs..Each, 20 15

*Size of beads as follows. Astragal 7/16 in., ogee 7/16 in., triple coffee pot ⅜ in., single ⅛ in., double ⅛ in.*

## FORMING MACHINE



### Stow's Patent Stovepipe Former

**No. 2**—1¾ in. Rolls, 30 in. Long. Weight Each, 115 lbs.....Each, $27 00

*These formers have finely finished rolls, are free from indentations and imperfections and are made from special rolled hard steel. Grooves are cut in rolls to allow work being formed after wiring. Wire should only be formed between the grooves cut for that purpose.*

## SQUARING SHEARS

### Stow's Improved

**No. 130A**—Top and Side Tables, will cut No. 18 Iron, 31 in. Long. Weight Each, 500 lbs .....Each, $78 00

**No. 30A**—Top, without Side Tables, will cut No. 18 Iron, 31 in. Long. Weight Each, 475 lbs .....Each, 75 00

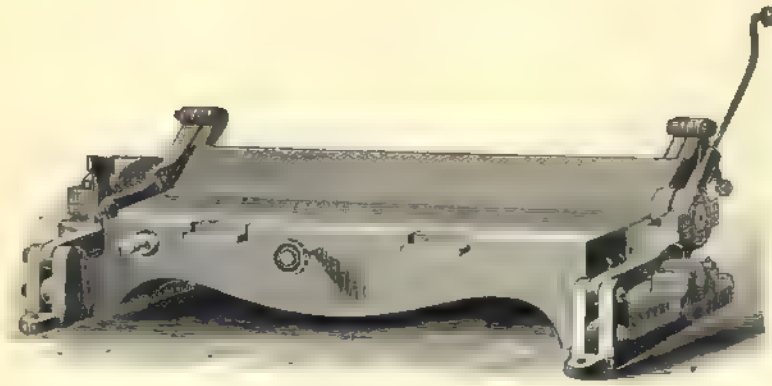
*Are equipped with two pair 12 and 19 in. front extension arms and improved quick-acting back gauge with adjustable rods for supporting and leading edge of material to face of gauge.*

ALL ABOVE, ONE IN A CASE

SEATTLE HARDWARE COMPANY

# TINNERS' TOOLS

## FOLDING MACHINES



**Stow's Patent Adjustable Bar**

For No. 22 Iron and Lighter.

**No. 154A**—Width, 30 in. Weight Each, 180 lbs....Each, $60 00

*These machines will form square joints or angles and turn narrow or wide locks of uniform width the entire length. Will turn sharp edges, also round edges, for inserting wire. Locks can be formed as narrow as ¾ inch and as wide as 1 inch.*

ONE IN A CASE.

**Wright's Patent**

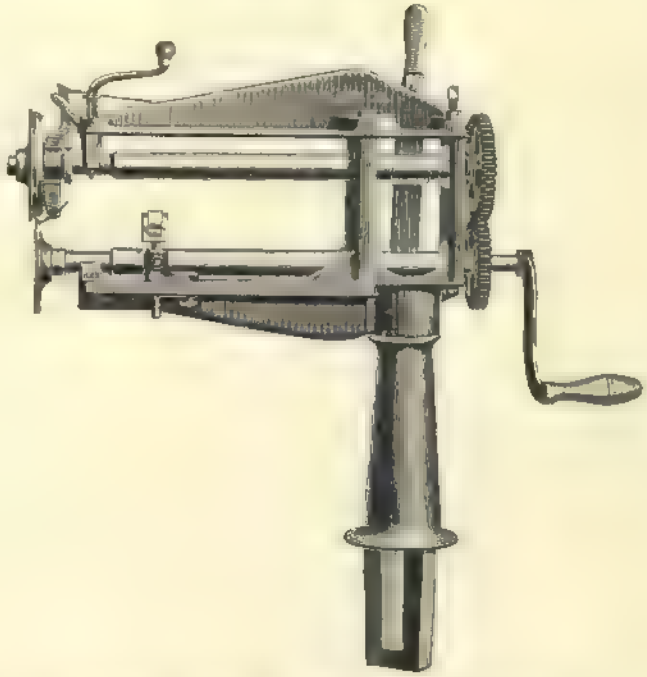
For No. 22 Iron and Lighter.

**No. 1**—Width, 32 in. Weight Each, 80 lbs.
..... Each, $18 00

*Will turn locks 5/16 and 3/16 in.*

ONE IN A CASE

## DOUBLE SEAMER



**Moore's Patent Double-Seaming Machine**

**No. 645** With Standard 13 in., for Common Work, 4 in. Face. Weight Each, 45 lbs. . . Each, $28 50

*These Double-Seaming Machines are adapted for general use. They are well adapted to the wants of the trade who desire a machine for small work. They are the only practical machines that will double-seam small coffee pots, etc. The size of the lower race determines the smallest size bottom that can be double-seamed.*

## GUTTER MACHINE

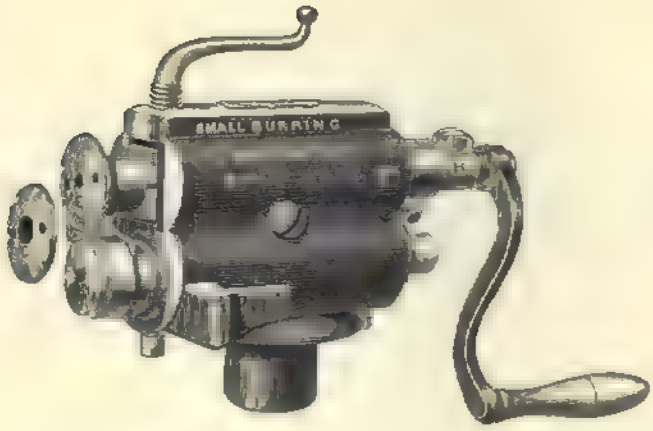
**Stow's Patent**

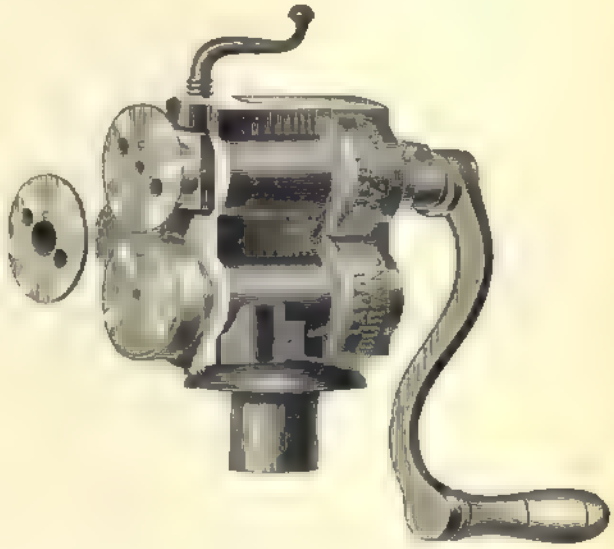
**No. 1**—Cast Steel Rod, 20 in. Long, ⅜ to ⅝ in. Diameter.
Weight Each, 40 lbs. . . . . Each, $8 25

PACKED AS WANTED.

# TINNERS' TOOLS

## STOW'S ENCASED BURRING MACHINES



**Small, Extra Upper Face**

**No. 579**—With Standard. Weight Each, 21 lbs.. ..... Each, $15 00

**Large, Extra Upper Face**

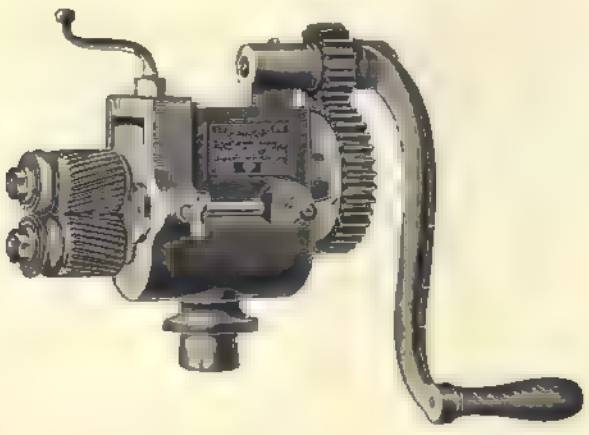
**No. 580**—With Standard. Weight Each, 23 lbs. .... Each, $15 75

*Burring Machine or Jenny used for creasing, edging rims of covers for pails, boilers, etc., and for preparing circular edges of bottoms and bodies of vessels for double-seaming.*

ONE IN WOODEN BOX.

SEATTLE HARDWARE COMPANY

## STOVEPIPE CRIMPER AND BEADER



**No. 6**—Complete with Standard. Weight Each, 47 lbs..... Each, $18 00

*These machines are designed to facilitate the making and putting together of sheet metal pipe of different diameters. They crimp and contract the edges of stove and conductor-pipes so that the lengths are put together easily.*

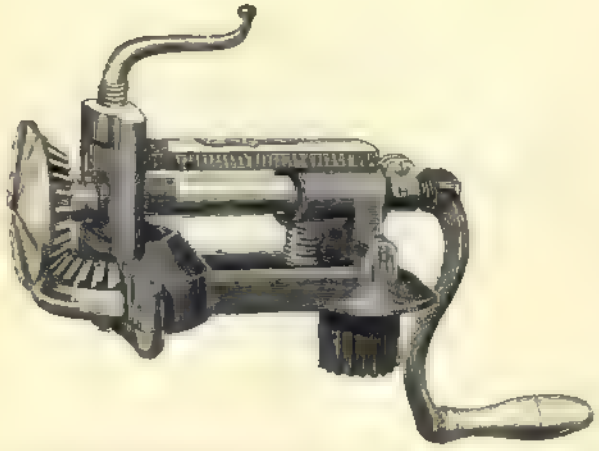
## MACHINE STANDARDS

**No. 60**—Wiring Machine Standard Weight Each, 12 lbs..... Each, $1 50

**No. 61** Small Machine Standard. Weight Each, 11 lbs..... Each, 1 50

# TINNERS' TOOLS

## SETTING-DOWN MACHINE



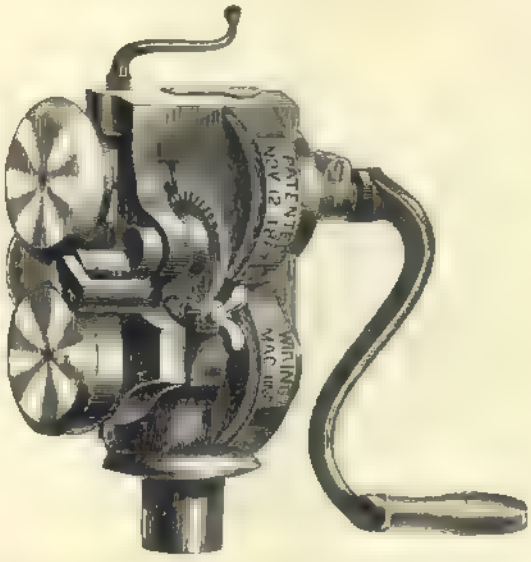
**Columbian, Adjustable Boxes and Duplicate Parts**

For No. 24 Iron and Lighter.

**No. 555**—With Standard, for Seams up to ⅛ in. Weight Each, 21 lbs. ..... Each, $14 65

*The Setting-Down Machine presses the edge of bottom onto the flange of body, after which the work is ready for double-seaming.*

## ENCASED WIRING MACHINE



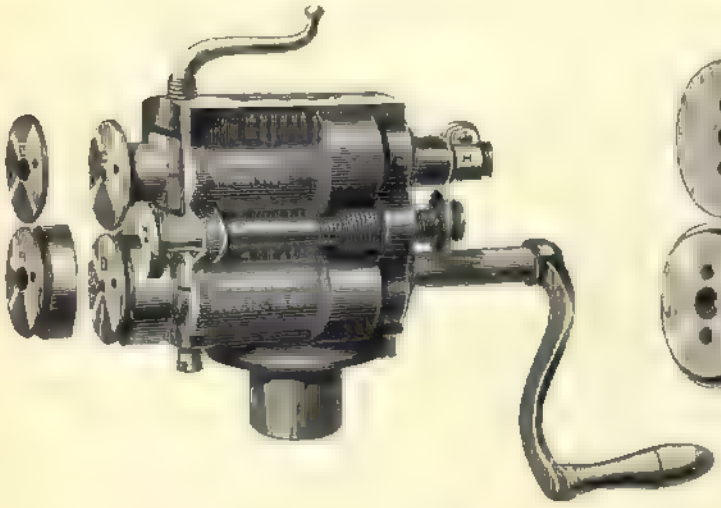
**Stow's, Adjustable Boxes and Duplicate Parts**

For No. 24 Iron and Lighter.

**No. 526** With Standard. Weight Each, 28 lbs. ..... Each, $21 00

*Wiring machines follow the turning machines. They are intended for rolling sheet metal tightly around wire after its seat has been prepared by the turning machine. Cylindrical or straight work can be wired with these machines.*

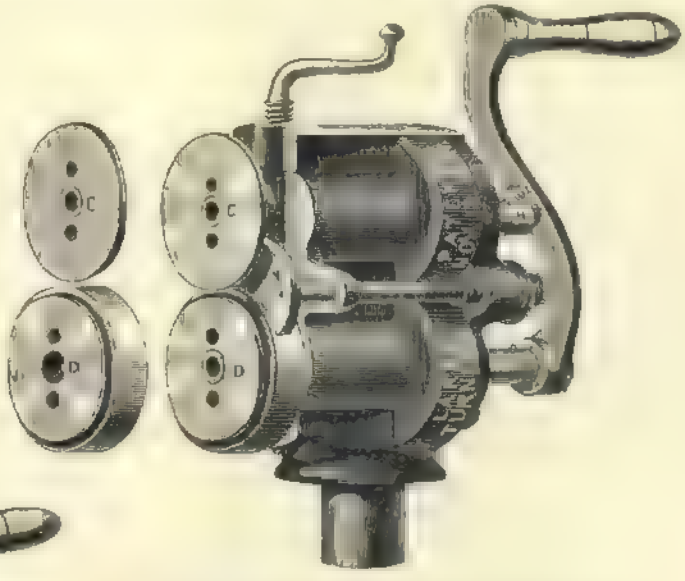
## ENCASED TURNING MACHINES



**Stow's, Small, Extra Upper and Lower Face**

For No. 24 Iron and Lighter.

**No. 545**—With Standard. Weight Each, 23 lbs., ..... Each, $16 90



**Stow's, Large, Extra Upper and Lower Face**

**No. 546**—With Standard. Weight Each, 28 lbs., ..... Each, $17 25

*Thick Edge or Turning Machines are intended for turning or curving the tops of vessels to receive wire. The wire is first formed into shape of vessel and then inserted in groove made by the turning machine. The wiring machine finishes the operation, closing metal completely around wire, adding finish and durability to the vessel.*

# TINNERS' TOOLS

## GUTTER TONGS

**Wrought Handles**

**No. 1** Weight Each Net, 9 lbs . . . . . Each, $7 50

ABOVE PACKED AS WANTED

## ROOFING TONGS

**Steel, Improved, Adjustable**

**No. 00** Adjusts from ½ to 1½ in. Weight Net, 8½ lbs. . . . . Each, $6 00

## DOUBLE SEAMER

**Burritt's Improved**

For Tin Roofing.

**No. 742** Common Gauge. Weight per Set, 38 lbs . . . . . Per Set of Two Pairs, $50 00

*Two pairs constitute a set.*

## HAND DOUBLE SEAMER

**To Match Roofing Tongs ¾ x 1 and 1 x 1¼ Inches**

**No. 4**—Weight Each, 19 lbs . . . . . Per Set of Two, $2 65

## WOOD ROOFING FOLDER

**Improved, with Gauge**

**No. 113** 20 in. Weight Each 11 lbs . . . . . Each, $5 25
**No. 123**—30 in. Weight Each, 15 lbs . . . . . " 7 50

ONE IN A CASE

SEATTLE HARDWARE COMPANY

# TINNERS' TOOLS

## BENCH PLATES

Cast Iron, Planed Surface

**No. 1**—37x8 in. Weight Net, 55 lbs ..... Each, $7 50

## STAKES

Wrought Iron with Steel Faces

### Beakhorn

**No. 1**—Round End 18 in., Flat End 20 in. Weight Each, 45 lbs ..... Each, $22 50
**No. 2**—Round End 16 in., Flat End 20 in. Weight Each, 40 lbs ..... Each, 19 95

### Hatchet

**No. 43** Blade 13 in. Long. Weight Each, 9 lbs. Each, $5 25
**No. 44** Blade 11 in. Long Weight Each, 6 lbs. " 4 15

### Creasing

**No. 28**—Length, 14½ in. Weight Each, 12½ lbs. ..... Each, $6 00

### Blowhorn

**No. 25**—Large End 9 in., Small End 17½ in. Weight Each, 19 lbs ..... Each, $7 50

### Candle Mould

**No. 56** Small End 18 in., Horn 8½ in. Weight Each, 6½ lbs ..... Each, $4 15

### Needle Case

**No. 57**—Flat End 8 in., Small End 10½ in. Weight Each, 4 lbs ..... Each, $3 40

# TINNERS' TOOLS

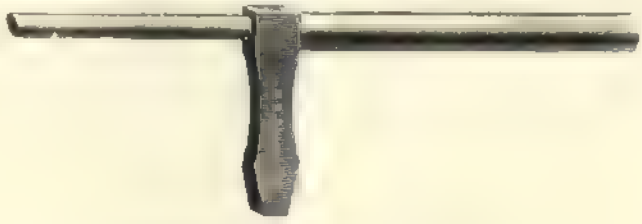
## STAKES

**Polished Round Head, Cast Iron**

**No. 65**—Head 3⅛ in., Length 12½ in. Weight Each, 10 lbs..... .....Each, $1 90

**Square, Wrought Iron and Steel**

**No. 36**—Face 2⅝x4½. Weight Each, 11 lbs..Each. $4 50



**Conductor, Cast Iron, Polished Face**

**No. 71** Turned, Large End 15 in . Small End 11½ in. Weight Each, 30 lbs. . .Each, $6 00

**Double Seaming, Wrought Iron and Steel**

**No. 21**—Large End 17 in., Small End 12 in. Weight Each, 34 lbs..... ..Each, $13 50

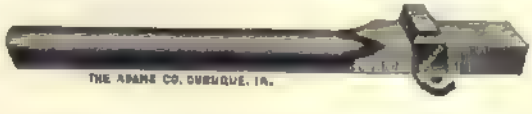
**Double Seaming, with Four Heads, Wrought and Cast Iron**

**No. 49**—Weight Each, 85 lbs..... Each, $13 50

## MANDRELS

**Hollow, Cast Iron, with Wrench**

**No. 11**—Flat Part 9 in. Long, 6 in. Wide; Oval Part 31 in. Long, Full Length 40 in. Weight Each, 45 lbs.....Each, $8 25



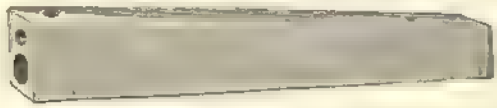

**Adams Stovepipe**

**No. 2**—Length 36 in. Weight Each, 40 lbs.. . .. .Each, $7 50

SEATTLE HARDWARE COMPANY

# TINNERS' TOOLS

## RIVET SETS



Cast Steel, Polished and Blued, Warranted

| Nos. | 00 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|
| Fits Iron Rivet, lbs. | 14 | 10 and 12 | 8 | 6 | 5 and 4 | 3 and 2½ | 2 and 1¾ | 1½ |
| Fits Copper Rivet, No. | .... | .... | 6 | .... | 8 | 9 | 10 | 12 |
| Weight per Dozen, lbs. | 15 | 15 | 10½ | 8½ | 6 | 5½ | 4 | 3 |
| Per Dozen | $13 50 | 13 50 | 11 34 | 11 34 | 9 00 | 9 00 | 6 66 | 6 66 |

00 TO 2 ONE-SIXTH DOZEN IN A BOX. 3 TO 6 ONE-HALF DOZEN IN A BOX

*For Farmers' Rivet Sets, see Page 132.*

## HAND GROOVERS

Forged Steel

## HOLLOW PUNCHES

Forged Steel

### HAND GROOVERS

| Nos. | 00 | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|
| Groove, in. | ½ | 7/16 | 15/32 | 3/8 | 5/16 | ¼ | 3/16 |
| Weight Each Net, ounces | 18 | 18 | 18 | 12 | 12 | 12 | 12 |
| Each | $1 13 | 1 13 | 0 95 | 0 95 | 0 75 | 0 75 | 0 65 |

### HOLLOW PUNCHES

| Diameter, in. | 3/8 | ½ | 5/8 | ¾ | 7/8 | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight Each Net, ounces | 4 | 4½ | 5 | 6 | 7 | 8 | 12 | 18 | 24 | 26 | 44 | 72 |
| Each | $0 57 | 0 75 | 0 95 | 1 13 | 1 32 | 1 50 | 1 88 | 2 25 | 2 63 | 3 00 | 3 75 | 4 50 |

ALL ABOVE PACKED AS WANTED

## RAISING HAMMERS

Cast Steel, Polished Face

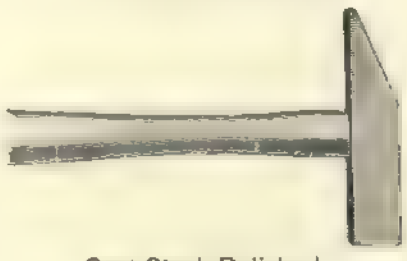
| Nos. | 2 | 3 |
|---|---|---|
| Diameter of Face, in. | 1½ and 2¼ | 1¾ and 1¾ |
| Weight Each Net, lbs. | 3¼ | 2¼ |
| Each | $2 80 | 2 05 |

## RIVETING HAMMERS

Cast Steel, Polished

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Face, in. | 1⅛ | 1 | ⅞ |
| Weight Each Net, ozs. | 24 | 18 | 14 |
| Per Dozen | $14 65 | 12 50 | 10 15 |

## SETTING HAMMERS



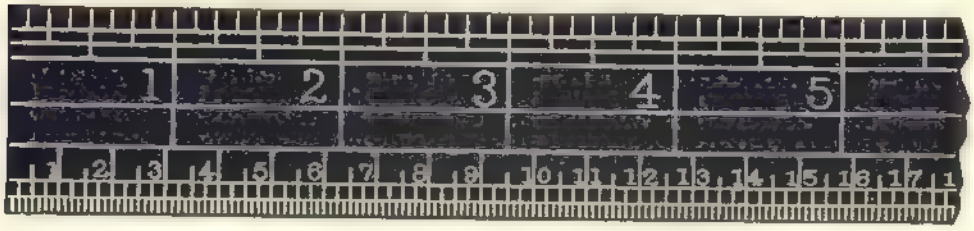
Cast Steel, Polished

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Face, in. | 1⅛ | 1 | ⅞ |
| Weight Each Net, ozs. | 24 | 18 | 14 |
| Per Dozen | $14 65 | 12 50 | 10 15 |

ONE-HALF DOZEN IN A BOX

# TINNERS' TOOLS

## STEEL RULES



Cast Steel, Polished

**No. 101**—Full Length, 36 in. Graduations ⅛ in. and Circumference on one side and Tables of Measurements on other side. Weight Each, 2½ lbs. Each, $5 25

PACKED AS WANTED

## SOLDERING COPPERS

Drawn Bolt, Square Point, Forged

| Nos. | 1 | 1½ | 2 | 3 | 4 | 5 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| Weight per Pair Net, lbs. | 1 | 1½ | 2 | 3 | 4 | 5 | 6 | 8 | 10 |
| Per Pound | $0 55 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 |

PACKED AS WANTED

## SOLDERING SETS

**No. 2**—Complete, Soldering Copper, Solder, Scraper and Resin. Weight per Dozen Sets, 11½ lbs. Per Dozen Sets, $7 00

ONE SET IN A WOOD BOX, SLIDING COVER

## MELTING LADLES

Wrought Steel

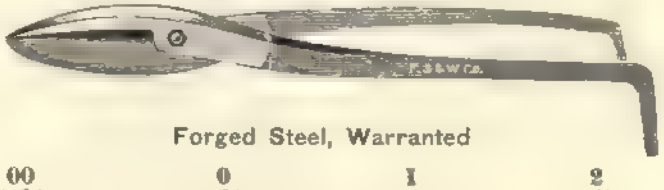
| Nos. | 2 | 4 | 6 | 8 |
|---|---|---|---|---|
| Diameter, in. | 3 | 4 | 5 | 6 |
| Weight per Dozen, lbs. | 10 | 15 | 24 | 30 |
| Per Dozen | $3 60 | 4 35 | 5 25 | 6 75 |

No. 149—Wrought Steel, Extra Heavy

Socket Handle

| Diameter, in. | 7 | 8 |
|---|---|---|
| Weight per Dozen, lbs | 69 | 72 |
| Per Dozen | $14 50 | 18 00 |

## BENCH SHEARS



Forged Steel, Warranted

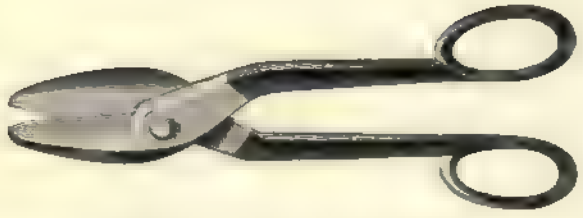
| Nos. | 00 | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|
| Length of Cut, in. | 11½ | 10½ | 9 | 8¾ | 7⅝ | 7⅜ |
| Cuts Iron, Gauge | 18 | 18 | 19 | 20 | 19 | 20 |
| Weight Each, lbs | 44 | 40 | 35 | 30 | 25 | 20 |
| P. S. & W. Each, | $20 25 | 18 00 | 12 00 | 10 50 | 9 00 | 7 50 |

SEATTLE HARDWARE COMPANY

# TINNERS' TOOLS

## SNIPS

### OCCIDENT



Forged Steel, Straight, Warranted

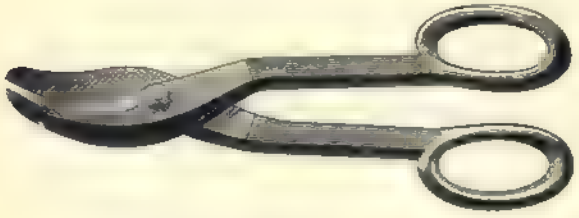
| Nos. | 06½ | 07 | 08 | 09 | 010 | 012 |
|---|---|---|---|---|---|---|
| Length of Cut, in. | 4½ | 4 | 3½ | 3 | 2½ | 2 |
| Weight Each Net, lbs. | 3 | 2½ | 2 | 1½ | 1 | ½ |
| Each | $3 00 | 2 50 | 2 00 | 1 50 | 1 40 | 1 00 |

### P. S. & W.

Forged Steel, Straight, Warranted

| Nos. | 7 | 8 | 9 | 10 |
|---|---|---|---|---|
| Length, in. | 4 | 3½ | 3 | 2½ |
| Cuts Iron, Gauge | 25 | 26 | 27 | 28 |
| Weight Each Net, lbs. | 2½ | 2 | 1½ | 1 |
| Each | $3 75 | 3 00 | 2 25 | 2 10 |

### OCCIDENT



Wrought Steel, Circular, Warranted

| Nos. | C7 | C8 | C9 | C10 |
|---|---|---|---|---|
| Weight Each Net, lbs. | 2½ | 2 | 1½ | 1 |
| Each | $3 50 | 3 00 | 2 50 | 2 25 |

### CAST

Polished Blades, Japanned Handles

| Length of Cut, in. | 2½ | 3 |
|---|---|---|
| Weight per Dozen, lbs. | 12 | 15 |
| Per Dozen | $7 00 | 8 00 |

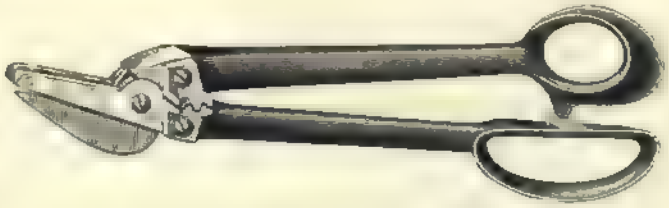
### LYONS

Scroll and Circle Shears

Forged Steel, Warranted.

| Nos. | 165 | 170 | 180 | 190 |
|---|---|---|---|---|
| Length of Cut, in. | 4 | 3½ | 3 | 2½ |
| Weight Each, lbs. | 3 | 2¼ | 1¾ | 1½ |
| Each | $4 50 | 3 75 | 3 00 | 2 25 |

### BERRIDGE



Double Cutting Shears and Stovepipe Crimper

Forged Steel

No. 2B—Length 13 in. Weight Each, 2¼ lbs. Each. $4 50

### SEARIGHT

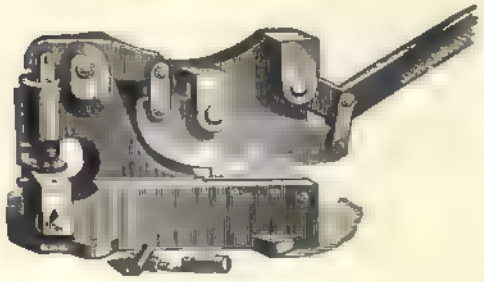
No. 78—Length, 7 in.: Blade, 1¼ in. Weight Each, 5 ounces. Each, $1 50

Mechanic's Compound Lever

| Nos. | 88 | 108 | 128 | 148 |
|---|---|---|---|---|
| Length Cut, in. | 1¼ | 2½ | 3 | 3½ |
| Weight Each, lbs | ⅝ | 1½ | 2 | 2½ |
| Each | $2 25 | 3 40 | 4 50 | 5 25 |

# SHEARS AND PUNCHES

## STOW'S COMBINED SHEAR AND PUNCH



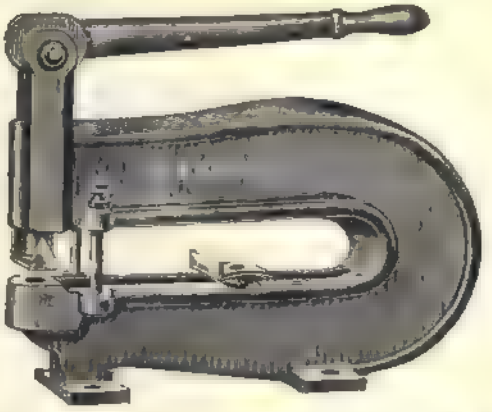
For Cutting 1/8-in. Iron and Punching 5/16-in. Iron

**No. 2** 5½ in Cut, with Five Punches 1/8, 3/16, 1/4, 5/16 and 3/4 in Weight Each Net, 120 lbs ..... Each, $37 50

ONE IN A CASE.

**Extra Punches** (1/8, 3/16, 1/4, 5/16, 3/4) Each, $0 75
**Extra Die Plate** (includes all sizes) " 1 50

## SAMSON PUNCH



With Removable Stay Bolts, Wrought-Iron Links

**No. 5**—Improved, with 3 Punches, 1/8 3/16 and 1/4 in Weight Each Net 140 lbs Each, $37 50

ONE IN A CASE

*Warranted to punch No. 9 Iron with "stay bolts," and No. 12 without "stay bolts." Depth of gap, 15 in., will center on 30-in. sheets without "stay bolts," and 7-in. sheets with "stay bolts."*

**Extra Punches** (1/8, 5/16 and 1/4 in.) Each, $0 75
**Extra Dies** (1/8, 3/16 and 1/4 in.) " 1 50

## PORTABLE PUNCH

### Lightning

| No | | | | Each |
|---|---|---|---|---|
| **1**—18-in. Power Lever; | Depth of Throat, 1½ in. | Will punch 14 gauge and lighter. | Weight Each, 8 lbs. | $18 00 |
| **3**—28 in Power Lever; | Depth of Throat, 1½ in. | Will punch 5/16-in. hole in 5/16 in. iron. | Weight Each, 12 lbs. | 20 00 |
| **7**—38-in. Power Lever; | Depth of Throat, 2 in. | Will punch 1/4 in. hole in 1/4 in iron. | Weight Each, 16 lbs. | 26 00 |

*Nos 1 and 3 will punch on both up and down motion. No. 7 has compound levers but works only with down motion. One punch and one die, any size, furnished with each punch.*

**Extra Punches** (1/8, 3/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 and ½ in.) ..... Each, $1 00
**Extra Dies** (1/8, 3/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 and ½ in.) ..... " 1 20

## STEEL SCREW PUNCHES

| No. | | | Each |
|---|---|---|---|
| **0**—Punches ½-in. hole in 3/4-in. iron, 1½ in. from edge of sheet. | | Wt. 15 lbs ..... | $24 00 |
| **1**—Punches 5/8-in. hole in 3/8-in. iron, 1½ in. from edge of sheet. | | Wt. 27 lbs ..... | 30 00 |
| **2**—Punches 3/4-in. hole in ½-in. iron, 2 in. from edge of sheet. | | Wt. 40 lbs ..... | 40 00 |
| **3**—Punches 3/4 in. hole in 3/4-in. iron, 2½ in. from edge of sheet. | | Wt. 62 lbs ..... | 60 00 |

### Extra Dies

| | | | |
|---|---|---|---|
| **No. 0** | 1 5/16 in. Diameter. | 1/4, 5/16, 3/8, 7/16 and 1/2 in | Each, $1 75 |
| **No. 1 and 2** | 1 9/16 in. Diameter. | 1/4, 5/16, 3/8, 7/16, 1/2, 5/8 and 3/4 in | " 2 00 |
| **No. 3** | 1 7/8 in. Diameter. | 1/2, 5/8 and 3/4 in | " 2 50 |

### Extra Punches

| | | |
|---|---|---|
| **No. 0** | —1/4, 5/16, 3/8, 7/16 and 1/2 in . . | Each, $1 75 |
| **No. 1 and 2** | —1/4, 5/16, 3/8, 7/16, 1/2, 5/8 and 3/4 in . . | " 2 00 |
| **No. 3** | —1/2, 5/8 and 3/4 in . . | " 2 50 |

*These Punches are made of highest grade steel castings having a tensile strength of 80,000 pounds per square inch. The metal is placed where it will do the most good, which is not easily attained in forgings.*

*Each machine is fitted with one Punch and Die, and other than these are charged extra.*

# LUMBERING SUPPLIES

## WITHAM'S BOOT CALKS

No. 00—Extra Small Ball

No. 0—Small Ball

No. 1—Medium Ball

No. 2—Large Ball

| | | | | | |
|---|---|---|---|---|---|
| **Witham's Pattern—Nos.** | **000** | **00** | **0** | **1** | **2** |
| Weight per Thousand, Lbs. | 3 | 3½ | 4 | 5 | 6 |
| **Bright,** per Thousand | $5 00 | 5 00 | 6 00 | 7 00 | 8 00 |
| **Blued,** per Thousand | 5 00 | 5 00 | 6 00 | 7 00 | 8 00 |

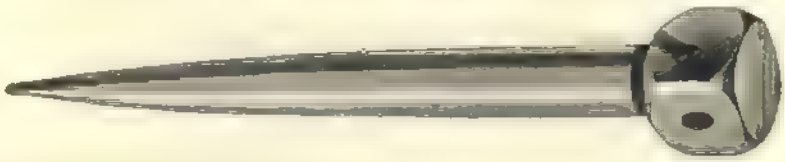
ONE HUNDRED IN A BOX ONE THOUSAND IN A PACKAGE

## CALK SETS

**No. 5**—Cast Steel; Weight per Dozen, 2 lbs. ..... Per Dozen, $2 50

ONE DOZEN IN A BOX.

## CALK SET AND PUNCH



**No. 10**—Combined, Cast Steel; Weight per Dozen, 2½ lbs. ..... Per Dozen, $3 50

ONE DOZEN IN A BOX

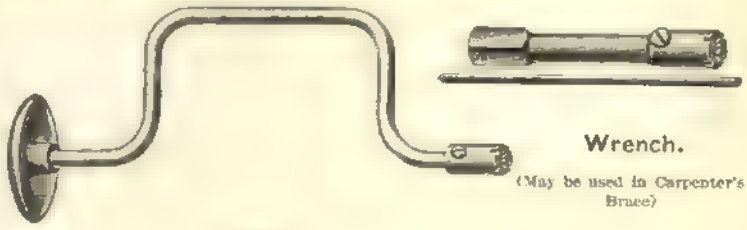
## WING SCREW BOOT CALKS

No. 00

No. 4

No. 5

No. 7



Wrench.

(May be used in Carpenter's Brace)

Brace

| | | | | |
|---|---|---|---|---|
| **Wing Screw Boot Calks—Nos.** | **00** | **4** | **5** | **7** |
| Weight per Thousand, lbs. | 3 | 3½ | 4 | 5 |
| Per One Thousand | $10 00 | 10 00 | 10 00 | 10 50 |

*The above are of a high grade steel, hardened and tempered in oil. A chuck is given (without charge) with every box, of fifty in a box, one thousand in a case.*

**No. 1**—Braces ..... Per Dozen, $2 50
**No. 2**—Wrenches ..... " 1 75
**No. 3**—Chucks ..... " 75

## SHINGLE BANDS

### Cold-Rolled Flat Wire

**No. 126**—Black. 26 Gauge, Width ½ in., Length 11, 12 and 13 in. ..... Per Pound, $0 08
**No. 226**—Galvanized, 26 Gauge, Width ½ in., Length 11, 12 and 13 in. ..... " 10

*11 inch, 40 to the pound; 12 inch, 33 to the pound; 13 inch, 25 to the pound.*

WEIGHT OF BARRELS 250 TO 300 POUNDS.

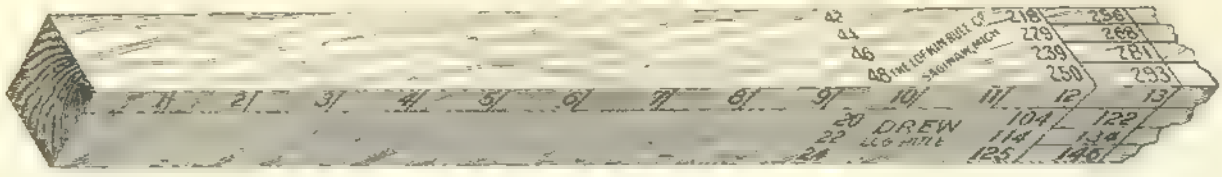
SEATTLE HARDWARE COMPANY

# LUMBERING TOOLS

## BOARD RULES

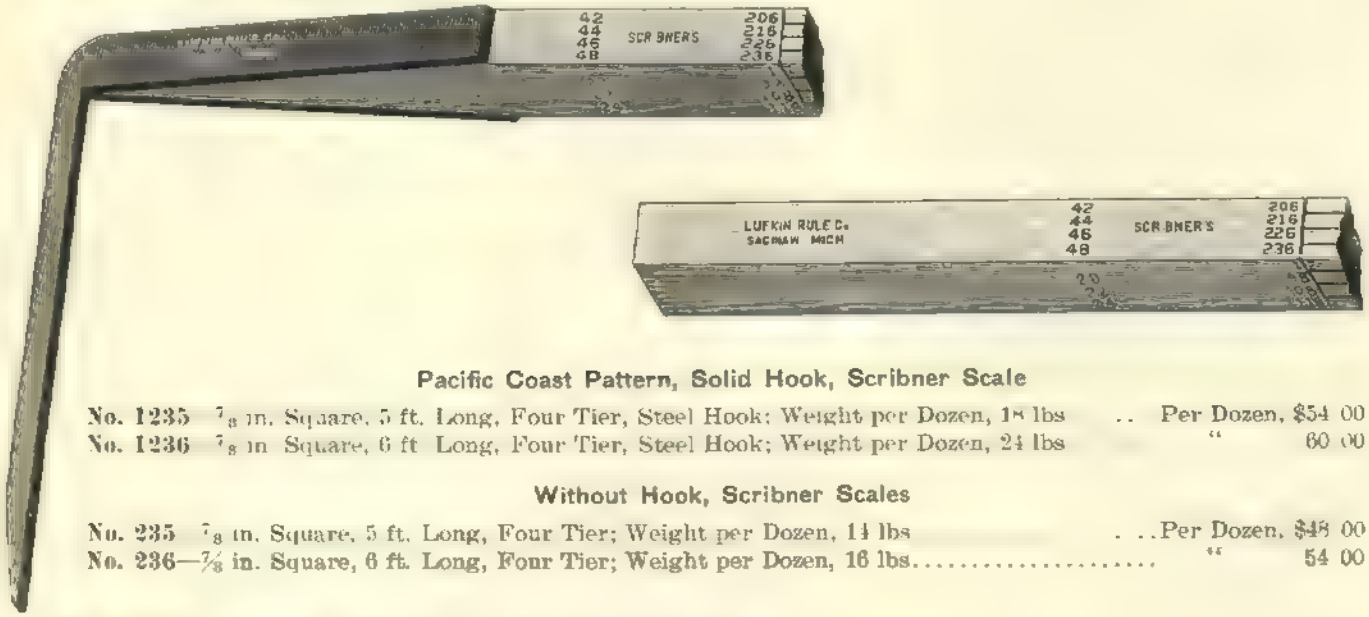
No. 2 Three Tier, 3 ft Long, Extra Heavy Brazed Head; Weight per Dozen, 15 lbs. . . . . Per Dozen, $25 00

## LOG RULES




### Nos. 5 and 6

No. 5—Drew's, 5 ft. Long, 1 in. Square; Weight per Dozen, 30 lbs. . . . . Per Dozen, $38 00
No. 6—Drew's, 6 ft. Long, 1 in. Square; Weight per Dozen, 36 lbs. . . . . " 40 00

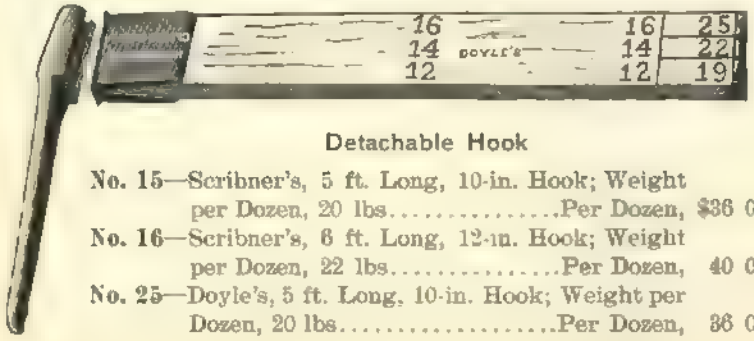



### Pacific Coast Pattern, Solid Hook, Scribner Scale

No. 1235 $\frac{7}{8}$ in. Square, 5 ft. Long, Four Tier, Steel Hook; Weight per Dozen, 18 lbs . . Per Dozen, $54 00
No. 1236 $\frac{7}{8}$ in. Square, 6 ft. Long, Four Tier, Steel Hook; Weight per Dozen, 24 lbs " 60 00

### Without Hook, Scribner Scales

No. 235 $\frac{7}{8}$ in. Square, 5 ft. Long, Four Tier; Weight per Dozen, 14 lbs . . . Per Dozen, $48 00
No. 236—$\frac{7}{8}$ in. Square, 6 ft. Long, Four Tier; Weight per Dozen, 16 lbs. . . . . " 54 00




### Detachable Hook

No. 15—Scribner's, 5 ft. Long, 10-in. Hook; Weight per Dozen, 20 lbs. . . . . Per Dozen, $36 00
No. 16—Scribner's, 6 ft. Long, 12-in. Hook; Weight per Dozen, 22 lbs. . . . . Per Dozen, 40 00
No. 25—Doyle's, 5 ft. Long, 10-in. Hook; Weight per Dozen, 20 lbs. . . . . Per Dozen, 36 00
No. 26—Doyle's, 6 ft. Long, 12-in. Hook; Weight per Dozen, 22 lbs. . . . . Per Dozen, 40 00

## TIMBER SCRIBES

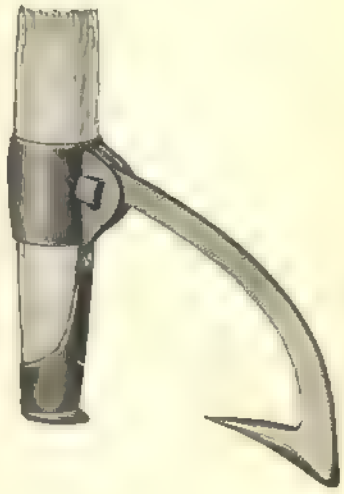
Cut One-half Size

No. 2—Large Size; Weight per Dozen, 5 lbs. . . . . Per Dozen, $15 00

ONE DOZEN IN A BOX.

# LUMBERING TOOLS

OCCIDENT PEAVEYS BANGOR PATTERN PEAVEYS CANT HOOKS



## PEAVEYS

### OCCIDENT.—Duck-Bill Hook, XXX Rock Maple Handles

| Nos. | 1214 | 1214½ | 1224½ | 1225 | 1235 | 1235½ | 1305½ |
|---|---|---|---|---|---|---|---|
| Diameter of Handle, in. | 2¼ | 2¼ | 2½ | 2½ | 2¾ | 2¾ | 3 |
| Length of Handle, ft. | 4 | 4½ | 4½ | 5 | 5 | 5½ | 5½ |
| Weight per Dozen, lbs. | 100 | 105 | 125 | 130 | 145 | 150 | 165 |
| Per Dozen | $24 70 | 25 40 | 26 40 | 27 10 | 31 10 | 31 80 | 35 60 |

### OCCIDENT.—Duck-Bill Hook, Select Hickory Handles

| Nos. | 2214 | 2214½ | 2224½ | 2225 | 2235 | 2235½ | 2305½ |
|---|---|---|---|---|---|---|---|
| Diameter of Handle, in. | 2¼ | 2¼ | 2½ | 2½ | 2¾ | 2¾ | 3 |
| Length of Handle, ft. | 4 | 4½ | 4½ | 5 | 5 | 5½ | 5½ |
| Weight per Dozen, lbs | 105 | 110 | 130 | 135 | 150 | 155 | 170 |
| Per Dozen | $31 50 | 32 50 | 32 90 | 33 90 | 38 80 | 39 80 | 44 00 |

### BANGOR PATTERN. Taper Solid Socket, All One Piece, Maple Handles

| Nos. | B1214 | B1214½ | B1224½ | B1225 | B1235 | B1235½ | B1305½ |
|---|---|---|---|---|---|---|---|
| Diameter of Handle, in. | 2¼ | 2¼ | 2½ | 2½ | 2¾ | 2¾ | 3 |
| Length of Handle, ft. | 4 | 4½ | 4½ | 5 | 5 | 5½ | 5½ |
| Weight per Dozen, lbs. | 100 | 105 | 125 | 130 | 145 | 150 | 165 |
| Per Dozen | $35 90 | 36 90 | 38 00 | 39 00 | 45 35 | 46 35 | 53 00 |

### BANGOR PATTERN. Taper Solid Socket, All One Piece, Select Hickory Handles

| Nos. | B2214 | B2214½ | B2224½ | B2225 | B2235 | B2235½ | B2305½ |
|---|---|---|---|---|---|---|---|
| Diameter of Handle, in. | 2¼ | 2¼ | 2½ | 2½ | 2¾ | 2¾ | 3 |
| Length of Handle, ft. | 4 | 4½ | 4½ | 5 | 5 | 5½ | 5½ |
| Weight per Dozen, lbs | 105 | 110 | 130 | 135 | 150 | 155 | 170 |
| Per Dozen | $41 25 | 42 25 | 43 50 | 44 50 | 52 45 | 53 45 | 59 00 |

## CANT HOOKS

### Duck-Bill Hook, Select Rock Maple Handles

**No. 224½**—Diameter of Handle, 2½ in., Length of Handle, 4½ ft. Weight per Dozen, 96 lbs. ..... Per Dozen, $19 40

ALL ABOVE PACKED AS WANTED

SEATTLE HARDWARE COMPANY

# LUMBERING TOOLS

## PEAVEY HOOK

**No. 4656** Duck Bill. Weight per Dozen, 30 lbs., per Dozen.....$12 50

## PEAVEY HOOK WITH CLASP AND BOLT

**No. 2756** Duck Bill. Weight per Dozen, 40 lbs., per Dozen.....$18 25

## PEAVEY CLASP AND BOLT

**No. 3756** –Malleable, 2½ in. Weight per Dozen, 10 lbs.....Per Dozen, $5 75

## PEAVEY BOLT

Steel

**No. 2956**—⅝ x 1¾ in. Weight per Hundred, 20 lbs.....Per Hundred, $6 00

ABOVE PACKED AS WANTED.

## PEAVEY HANDLES

### Select Maple

| Nos. | 3224½ | 3225 | 3235 | 3235½ |
|---|---|---|---|---|
| Diameter of Handle, in. | 2½ | 2½ | 2¾ | 2¾ |
| Length of Handle, ft. | 4½ | 5 | 5 | 5½ |
| Weight per Dozen, lbs. | 46 | 50 | 58 | 65 |
| Per Dozen | $6 80 | 7 60 | 9 20 | 10 00 |

### Occident—XXX Rock Maple

| Nos. | 4214 | 4214½ | 4224½ | 4225 | 4235 | 4235½ | 4305½ |
|---|---|---|---|---|---|---|---|
| Diameter of Handle, in. | 2¼ | 2¼ | 2½ | 2½ | 2¾ | 2¾ | 3 |
| Length of Handle, ft. | 4 | 4½ | 4½ | 5 | 5 | 5½ | 5½ |
| Weight per Dozen, lbs. | 37 | 40 | 46 | 50 | 58 | 65 | 80 |
| Per Dozen | $6 20 | 6 80 | 6 80 | 7 60 | 9 20 | 10 00 | 11 60 |

### Occident—Select Hickory

| Nos. | 6214 | 6214½ | 6224½ | 6225 | 6235 | 6235½ | 6305 | 6305½ |
|---|---|---|---|---|---|---|---|---|
| Diameter of Handle, in | 2¼ | 2¼ | 2½ | 2½ | 2¾ | 2¾ | 3 | 3 |
| Length of Handle, ft. | 4 | 4½ | 4½ | 5 | 5 | 5½ | 5 | 5½ |
| Weight per Doz., lbs. | 41 | 45 | 50 | 55 | 60 | 70 | 80 | 87 |
| Per Dozen | $10 80 | 12 00 | 12 60 | 14 00 | 16 60 | 18 20 | 19 20 | 21 20 |

ONE HALF DOZEN IN A BUNDLE.

## TIMBER CARRIER HANDLES

**No. 770**—2½x4 ft., Select Rock Maple. Weight per Dozen, 45 lbs . . . . . .Per Dozen, $8 00

ONE-HALF DOZEN IN A BUNDLE

# LUMBERING TOOLS

## PIKE POLES, WITH PIKE

Tool Steel Pikes, Second Growth Ohio Ash Poles

| Nos. | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|
| Length, ft. | 12 | 14 | 16 | 18 | 20 |
| Weight per Dozen, lbs. | 90 | 95 | 105 | 120 | 135 |
| Per Dozen | $20 75 | 25 50 | 32 00 | 42 00 | 57 00 |

## PIKE POLES, WITH PIKE AND HOOK

Tool Steel Pikes, Second Growth Ohio Ash Poles

| Nos. | 112 | 114 | 116 | 118 | 120 |
|---|---|---|---|---|---|
| Length, ft | 12 | 14 | 16 | 18 | 20 |
| Weight per Dozen, lbs | 95 | 100 | 110 | 125 | 140 |
| Per Dozen | $23 75 | 28 50 | 35 00 | 45 00 | 60 00 |

## PIKE POLE HANDLES

Second Growth Ohio Ash

| Length, ft. | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|
| Weight per Dozen, lbs. | 53 | 70 | 80 | 90 | 110 | 120 |
| Per Dozen | $10 60 | 11 25 | 18 75 | 17 50 | 25 00 | 37 50 |

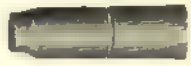
## PIKE POLE PIKE

No. 6956

## PIKE POLE PIKE, WITH HOOK

No 4956

## PIKE POLE FERRULE



No 7956

### Pike Pole Pikes

**No. 6956** Pike only Weight per Dozen, 12 lbs. . . . . Per Dozen, $6 25

### Pike Pole Pike with Hook

**No. 4956** Pickaroon Pike with Hook. Weight per Dozen, 14 lbs . . . . . Per Dozen, $10 00

### Pike Pole Ferrule

**No. 7956** Seamless Polished Steel, Two in a Set. Weight per Dozen Sets, 6 lbs.. . . . Per Dozen Sets. $4 50

## HOOKAROON PICKS

Steel Point, Unhandled

**No. 9956**—Light, Axe Eye Weight per Dozen, 18 lbs. . . . . Per Dozen, $8 00

**No. 8956** Heavy, Axe Eye Weight per Dozen, 21 lbs. . . . . Per Dozen, 14 75

Steel Point, Handled With 36-In. Handle

**No. 1245** –Light, Axe Eye. Weight per Dozen, 30 lbs. . . . . Per Dozen, $13 00

**No. 2245**—Heavy, Axe Eye Weight per Dozen, 36 lbs. . . . . Per Dozen, 16 45

ALL ABOVE PACKED AS WANTED.

SEATTLE HARDWARE COMPANY

# LUMBERING TOOLS

## TIMBER CARRIER OR LUG HOOK

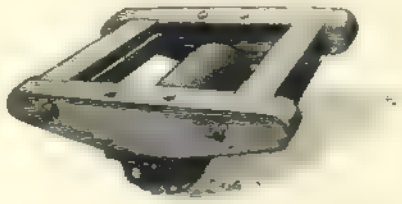
**No. 119**—Duck Bill, with 4 ft. Handles. Weight per Dozen, 55 lbs. .....Per Dozen, $36 00

*This tool is designed especially for use in mills, timber yards, or in railroad construction, for handling railroad ties, telegraph poles, square and all other shaped timbers. It will also be found useful in bridge, boat and house building, or wherever timbers are handled. For this purpose it is superior to anything heretofore designed.*

ONE-HALF DOZEN IN A BUNDLE

## TIMBER DOLLIES

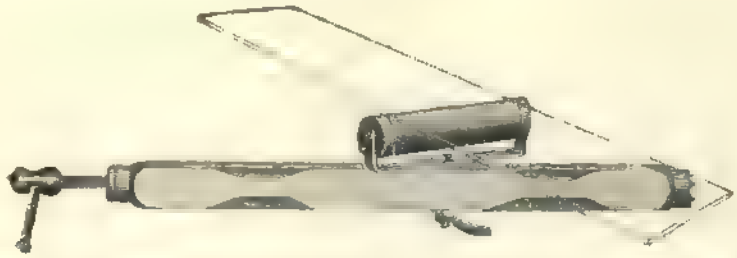
**No. 532** 17x19 in. Hardwood Frame, with Cast Iron Roller 10½ in. long, 6 in. diameter. Weight Each, 52 lbs.....Each, $9 50



**No. 632**—17½x21½ in. Extra Heavy Maple Frame, with Cast-Iron Roller 10½ in. long, 6 in. diameter. Weight Each, 57 lbs. .....Each, $10 00

*Frame is made of hardwood, with beveled edges and well mortised. The roller is made of cast iron with a wrought iron shaft passing clear through, and bearings are turned to center, and are fitted in cast iron boxes bolted to sides of frame.*

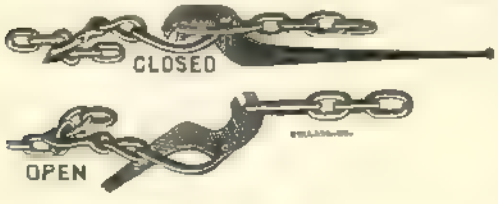
## CAR DOOR ROLLER



**No. 528** Width 4½ ft., Screw 16 in., Entire Length 5 ft. 10 in., Roller 15 in. Wide. Weight, Each, 40 lbs. ..... Each, $9 00

*Will fit any car door. Will save much time loading and unloading lumber. The cost is often saved in a single shipment of lumber.*

## LOG OR LOAD BINDERS




Benjamin's

**No. 651** Hand Forged Steel, Unbreakable. Wt. Pair, 23 lbs.....Per Pair, $6 00

Goodyear

Binds anything that can be bound with a chain, will take any chain from ¾ to 1⅛ in. Weight Pair, 22 lbs.....Per Pair, $4 00

*Above binders are sold by the pair (two binders), but can be ordered by the half pair (or single binder).*

# LUMBERING TOOLS

## RAFTING DOGS

With 1¼-Inch Eye

| No. | | Per 100 |
|---|---|---|
| 4 | ½ in. Iron, 5 in. long. Weight Doz., 9½ lbs. | $10 00 |
| 5 | ⅝ in. Iron, 6 in. long. Weight Doz., 15½ lbs. | 15 00 |

## CHOPPING BOARD IRONS

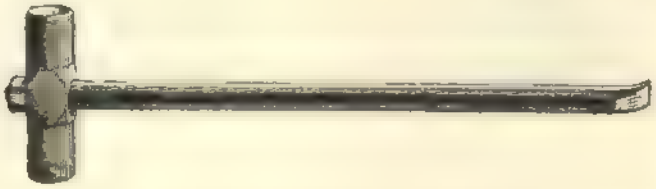
Made From Plow Steel

| No. | | Per Doz |
|---|---|---|
| 6 | Size 6 x 9 in. Weight Doz., 40 lbs. | $12 00 |

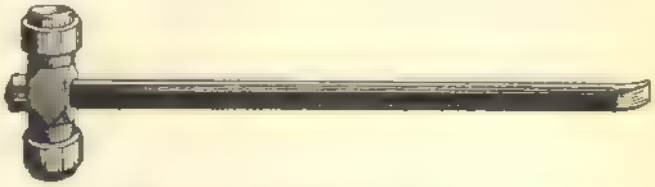
## BARKING IRONS

| No. | | Each |
|---|---|---|
| 9 | —Cast Steel, 1 in. Round, 48 in. Long. Weight, Doz. 144 lbs. | $3 00 |

## HOOK TENDERS' MAULS



With Plain Norway Iron Head



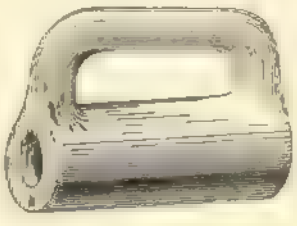
With Banded Norway Iron Head

| No. | | Each |
|---|---|---|
| 230 | Head 2 in. Diameter, Tool Steel Handle 29 in. long, with Pinch Point. Weight each, 14½ lbs. | $5 50 |
| 231 | Head 2 in. Diameter, Tool Steel Handle 59 in. long, with Pinch Point. Weight each 17 lbs. | $6 50 |

## MAUL HANDLES

| No. | | Each |
|---|---|---|
| 08 | —1-in. Octagon Cast Steel, Length 29 in., with Nut. Weight Each, 7½ lbs. | $3 00 |
| 013 | —1-in. Octagan Cast Steel, Length 31 in., with Nut. Weight Each, 8½ lbs. | 3 50 |

## LINE TRAVELER



No. 35

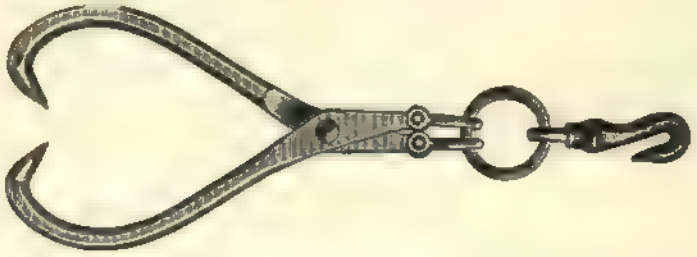
Hand Forged, from Machinery Steel.

| For Rope In. | Weight Each lbs. | Each |
|---|---|---|
| 1⅞ | 7 | $4 90 |
| 1 | 9 | 5 25 |
| 1⅛ | 12 | 5 65 |

SEATTLE HARDWARE COMPANY

# LUMBERING TOOLS

## SKIDDING TONGS



Crucible Cast Steel

| No. | | | Per Doz. |
|---|---|---|---|
| 7—1 | in. Octagon Steel, Opens 26 in. | Weight Doz., 210 lbs. | $65 00 |
| 8—1⅛ | in. Octagon Steel, Opens 26 in. | Weight Doz., 300 lbs. | 78 00 |
| 10 —1¼ | in. Octagon Steel, Opens 36 in. | Weight Doz., 400 lbs. | 90 00 |

## GRAB HOOKS

No 221—With Links and Ring

Flat Tool Steel

| Size, In. | Wt., Pair, Lbs. | Per Pair |
|---|---|---|
| ⅞ x 2 | 32 | $5 25 |
| ⅞ x 2 | 54 | 6 75 |
| ⅞ x 2½ | 36 | 7 15 |
| 1 x 2 | 38 | 7 15 |
| 1 x 2¼ | 40 | 8 25 |
| 1 x 2½ | 45 | 8 65 |
| 1⅛ x 2¼ | 50 | 11 25 |

No. 220—With Links and Ring

Octagon Tool Steel

| Size, In. | Wt. Pair, Lbs. | Per Pair |
|---|---|---|
| 1¼ | 19 | $6 00 |
| 1¼ | 22½ | 6 40 |
| 1⅜ | 25 | 6 75 |
| 1½ | 33 | 7 05 |
| 1⅝ | 38 | 8 25 |
| 1⅞ | 48 | 9 40 |
| 1⅞ | 55 | 9 75 |
| 2 | 65 | 10 15 |

## SWAMP HOOKS

No. 20—With Ring

Octagon Tool Steel

| Size, In. | Wt. Each, Lbs. | Each |
|---|---|---|
| ⅞ | 3 | $1 05 |
| ⅞ | 3½ | 1 50 |
| 1 | 5 | 1 75 |
| 1⅛ | 6½ | 1 90 |
| 1¼ | 9 | 5 10 |
| 1⅜ | 10 | 2 25 |
| 1½ | 12½ | 2 40 |
| 1⅝ | 15½ | 2 70 |
| 1¾ | 16 | 4 15 |
| 2 | 24 | 5 25 |

No. 6—With Ring and Grab Hook

Octagon Tool Steel

| Size, In. | Wt. Each, Lbs. | Each |
|---|---|---|
| 1 | 5 | $2 50 |
| 1½ | 6¾ | 2 72 |

# LUMBERING TOOLS

### No. 1—Grab Chain Hooks

| Size, In. | Weight Doz. Lbs. | Per Doz. |
|---|---|---|
| 5/16 | 7 | $3 50 |
| 3/8 | 15 | 3 50 |
| 7/16 | 28 | 4 00 |
| 1/2 | 29 | 5 00 |
| 5/8 | 35 | 6 75 |
| 3/4 | 55 | 8 50 |

### No. 2—Round Chain Hooks

| Size, In. | Weight Doz. Lbs. | Per Doz. |
|---|---|---|
| 5/16 | 9 | $2 00 |
| 3/8 | 15½ | 3 50 |
| 7/16 | 16 | 4 00 |
| 1/2 | 26 | 5 00 |
| 5/8 | 48 | 6 75 |
| 3/4 | 65 | 8 50 |

### No. 34—Block or Line Hooks

| Size, In. | Weight Each, Lbs. | Each |
|---|---|---|
| 1 | 1¼ | $1 15 |
| 1⅛ | 1¾ | 1 20 |
| 1¼ | 2½ | 1 35 |
| 1½ | 5 | 1 50 |
| 1¾ | 7 | 1 90 |
| 2 | 13½ | 2 25 |
| 2¼ | 19 | 2 65 |
| 2½ | 21¼ | 3 00 |

### No. 3—Cold Shuts

Norway Iron, Hand Made.

| Size, In. | Weight Per 100, Lbs. | Per 100 |
|---|---|---|
| ¼ | 6 | $3 50 |
| 5/16 | 10 | 4 00 |
| ⅜ | 17 | 5 00 |
| 7/16 | 25 | 6 00 |
| ½ | 35 | 8 00 |
| 5/8 | 69 | 15 00 |
| ¾ | 115 | 27 00 |
| ⅞ | 195 | 38 00 |
| 1 | 300 | 53 35 |

## LOGGING DOGS

### Uren's Logging Dogs

Made from Crucible Cast Tool Steel

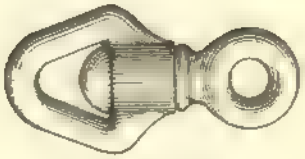
| Size, In. | Weight Doz., Lbs. | Per Doz. |
|---|---|---|
| ½x1½ | 36 | $14 00 |
| ⅝x1¾ | 50 | 16 00 |
| ⅝x2 | 55 | 17 00 |
| ¾x2 | 60 | 18 00 |
| ¾x2¼ | 66 | 20 00 |
| ⅞x2 | 66 | $20 00 |
| ⅞x2¼ | 70 | 22 00 |
| ⅞x2½ | 84 | 34 00 |
| 1 x2¼ | 90 | 34 00 |
| 1 x2⅝ | 96 | 36 00 |

SEATTLE HARDWARE COMPANY

# LUMBERING TOOLS

## SWIVELS

Hand Forged from best Machinery Steel.



### No. 51 — Regular Line Swivels

| Size, In. | Weight Each, Lbs. | Each |
|---|---|---|
| 1/2 | 2 | $2 70 |
| 5/8 | 2 1/2 | 3 10 |
| 3/4 | 3 | 3 40 |
| 7/8 | 4 | 3 90 |
| 1 | 5 | 4 15 |
| 1 1/8 | 8 | 4 50 |
| 1 1/4 | 12 | 5 65 |
| 1 1/2 | 18 | 6 40 |

### No. 52 — Flexible Line Swivels

| Size, In. | Weight Each, Lbs. | Each |
|---|---|---|
| 3/4 | 12 | $4 50 |
| 1 | 16 | 6 40 |

### No. 35 — Return-Line Swivel Hooks

| Swivel In. | Hook In. | Wt. Each Lbs. | Each |
|---|---|---|---|
| 1/2 | 1 1/8 | 4 | $4 05 |
| 5/8 | 1 1/4 | 5 | 4 60 |
| 3/4 | 1 1/2 | 9 | 5 65 |
| 7/8 | 1 3/4 | 14 | 6 15 |

### No. 36 Main-Line Swivel Hooks

| Swivel In. | Hook In. | Wt. Each Lbs. | Each |
|---|---|---|---|
| 1 1/8 | 2 | 22 1/2 | $7 15 |
| 1 1/4 | 2 1/4 | 32 | 8 65 |
| 1 3/8 | 2 1/2 | 36 | 8 85 |
| 1 1/2 | 2 1/2 | 43 | 9 75 |

## CHOKER HOOKS

No. 30—Plain Eye

No. 31 Cross Eye

No. 32 With Stiff Swivel

No. 33—With Swivel and Plain Eye

### No. 30 — Plain-Eye Choker Hooks

| Size, In. | Wt. Each, Lbs. | Each |
|---|---|---|
| 1 x2 | 2 1/2 | $1 20 |
| 1 1/4 x2 | 2 1/2 | 1 55 |
| 1 3/8 x2 1/2 | 3 1/2 | 1 50 |
| 1 x3 | 5 1/2 | 1 75 |
| 1 1/8 x3 1/2 | 8 | 2 05 |
| 1 1/4 x4 | 8 1/2 | 2 65 |
| 1 1/2 x5 | 17 1/2 | 3 90 |

### No. 32 — Choker Hook With Stiff Swivel

| Size, In. | Wt. Each, Lbs. | Each |
|---|---|---|
| 7/8 x3 | 12 | $4 35 |
| 1 x3 1/2 | 13 | 4 90 |
| 1 1/4 x4 | 18 | 5 65 |

### No. 31 Cross-Eye Choker Hooks

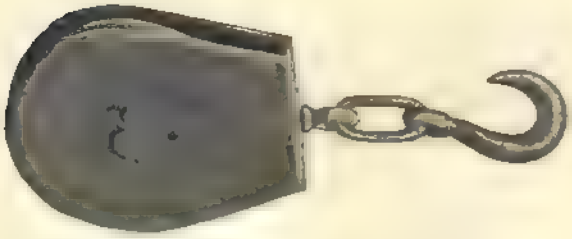
| Size, In. | Wt. Each, Lbs. | Each |
|---|---|---|
| 1 3/8 x2 1/2 | 5 1/2 | $1 75 |
| 1 x3 | 5 | 2 05 |
| 1 1/4 x3 1/2 | 8 | 2 40 |
| 1 1/4 x4 | 9 | 2 70 |
| 1 1/2 x4 | 16 | 3 75 |

### No. 33 — Choker Hooks With Swivel and Plain Eye

| Swivel, In. | Choker, In. | Wt. Each, Lbs. | Each |
|---|---|---|---|
| 5/8 | 3/4 x2 | 4 1/2 | $4 60 |
| 3/4 | 7/8 x2 1/2 | 8 1/2 | 5 05 |
| 7/8 | 1 x3 | 11 1/2 | 6 00 |
| 1 | 1 x3 | 14 | 6 25 |
| 1 1/8 | 1 1/8 x3 1/2 | 21 | 6 90 |
| 1 1/4 | 1 1/4 x4 | 28 | 8 65 |
| 1 3/8 | 1 1/4 x4 | 30 | 8 85 |
| 1 1/2 | 1 1/2 x5 | 41 | 10 65 |

# LUMBERING BLOCKS

## RETURN LINE



### Return-Line Blocks with Round Hooks

Adapted to Wire Rope up to $\frac{5}{8}$ in. Diameter.

| No. | Sheave In. | Shell In. | Diam. Pin In. | Wt. Lbs. | Each |
|---|---|---|---|---|---|
| 66— | 1 x 6 | 7 | 1 | 14 | $4 20 |
| 68— | 1 x 8 | 9 | $1\frac{1}{4}$ | 25 | 5 40 |
| 610— | 1 x 10 | 11 | $1\frac{1}{4}$ | 35 | 6 75 |

### Return-Line Blocks with Dog Hooks

Adapted to Wire Rope up to $\frac{5}{8}$ in. Diameter

| No. | Sheave In. | Shell In. | Diam. Pin In. | Wt. Lbs. | Each |
|---|---|---|---|---|---|
| 76— | 1 x 6 | 7 | 1 | 1[illegible] | $4 2[illegible] |
| 78 | 1 x 8 | 9 | $1\frac{1}{4}$ | 2[illegible] | 5 4[illegible] |
| 710— | 1 x 10 | 11 | $1\frac{1}{4}$ | [illegible]2 | 6 75 |

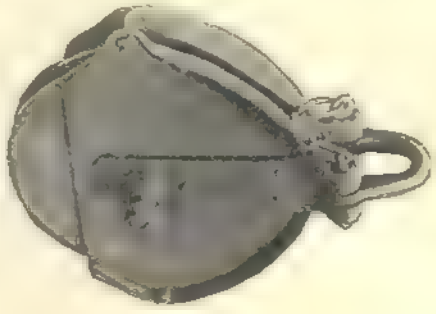
*Have Heavy Steel Boiler Plate Sides, formed of one piece, Heavy Machine Steel Hooks and Links, Semi-Steel Plain Sheaves, Tool Steel Axle Pin*

## RETURN AND HEAD LINE

### Return-Line Shackle Blocks

Adapted to Wire Rope up to $\frac{5}{8}$ in. Diameter.

| No. | Sheave, In. | Shell. In. | Diam. Pin. In. | Wt., Lbs. | Each |
|---|---|---|---|---|---|
| 861— | 1 x 6 x $1\frac{1}{4}$ | 8 | 1 | 14 | $5 25 |
| 881— | 1 x 8 x $1\frac{1}{4}$ | 10 | $1\frac{1}{4}$ | 25 | 6 75 |
| 891— | 1 x 9 x $1\frac{1}{4}$ | 11 | $1\frac{1}{4}$ | 29 | 7 50 |
| 8010— | 1 x 10 x $1\frac{1}{4}$ | 12 | $1\frac{1}{4}$ | 35 | 9 00 |



### Head-Line Blocks

Adapted to Wire Rope $\frac{1}{2}$ to 1 in. Diameter

| No. | Sheave. In. | Shell In. | Diam. Pin In. | Wt. Lbs. | Each |
|---|---|---|---|---|---|
| 710 | 10 x 1[illegible] | 11 | 1[illegible] | 75 | $14 25 |
| 712 | 12 x 1[illegible] | 12 | 1[illegible] | 75 | 15 75 |
| 714 | 14 x 1[illegible] | 13 | 1[illegible] | 105 | 18 00 |
| 716 | 16 x $1\frac{1}{2}$ | 16 | $1\frac{1}{2}$ | 125 | 21 00 |
| 718— | 18 x $1\frac{1}{2}$ | 17 | $1\frac{1}{2}$ | 135 | 27 00 |

*Have Steel Boiler Plate Sides, with Heavy Machine Steel Straps, Forged Steel Shackles and Pins.*

## DONKEY

### Donkey Blocks

Adapted to Wire Rope, $\frac{3}{4}$ to $1\frac{1}{2}$ in. Diameter.

| No. | | Each |
|---|---|---|
| 808— | Sheave 2 x 8 x $1\frac{1}{2}$ in., Shell 14 in., Pin $1\frac{1}{2}$ in. Weight 76 lbs | $18 75 |
| 810— | Sheave 2 x 10 x $1\frac{1}{2}$ in., Shell 16 in., Pin $1\frac{1}{2}$ in. Weight 98 lbs | 19 90 |
| 812 | Sheave 2 x 12 x $1\frac{1}{2}$ in., Shell 18 in., Pin $1\frac{1}{2}$ in. Weight 117 lbs | 24 00 |

*Heavy Steel Boiler Plate Shell, Heavy Machine Steel Straps, Hand Forged Machine Steel Bale Hook, Machine Steel Swivel, Plain Bushed Sheave and Steel Pin*

SEATTLE HARDWARE COMPANY

# LUMBERING BLOCKS

TEAM

### Team Blocks, Donkey Pattern

Adapted to wire rope up to ¾ in. diameter.

| No. | Sheave In. | Shell, In. | Diam. Pin, In. | Wt., Lbs. | Each |
|---|---|---|---|---|---|
| 26 | 1¾x6x1 | 11 | 1 | 31 | $12 00 |
| 28 | 1¾x8x1¼ | 13 | 1¼ | 40 | 15 00 |

*Boiler-plate steel sides, heavy machine steel straps, machine steel bull hook, link and swivel and pin, plain bushed sheave.*

DONKEY

### Donkey Blocks

Adapted to wire rope ¾ to 1¼ in. diameter.

| No. | Sheave In. | Diam. Pin In. | Wt. Lbs. | Plain Bushed Ea. | Bronze Bushed Ea. |
|---|---|---|---|---|---|
| 8 | 2¼x 8x2½ | 2½ | 95 | $19 50 | $21 00 |
| 10 | 2¼x10x2½ | 2½ | 120 | 23 10 | 24 00 |
| 12 | 2¼x12x2½ | 2½ | 150 | 28 50 | 30 00 |

*Cast-steel shell, double hinge, hand-forged tool steel bull hook, deep socket swivel eye, tool steel axle pins with oil cup.*

### YARDING OR DONKEY

**Open Side, With Oil Cup**

Adapted to wire rope ¾ to 1½ in. diameter.

| No. | Sheave In. | Diam. Pin. In. | Wt., Lbs. | Each |
|---|---|---|---|---|
| 8A | 2¼x 8x2½ | 2½ | 100 | $22 80 |
| 10A | 2¼x10x2½ | 2½ | 125 | 27 40 |
| 12A | 2¼x12x2½ | 2½ | 155 | 34 20 |

*Cast-steel shell. Hand-forged tool steel bull hook. Side of shell is hinged to yoke with 1-inch tool-steel pin. Locking pin is 1-inch tool steel. Has Young's Special Process semi-steel sheave. Bronze bushed. Tool-steel pin, steel oil cups.*

# POCKET KNIVES

## OCCIDENT—WARRANTED

**No. 2656**—Two Blades, 2½ in. Pearl Handle, Brass Lined, Full Polished . . . . . Per Dozen, $14 00

**No. 3660** Three Blades, 2⅞ in. Pearl Handle, Brass Lined, Full Crocus Polished . . . . . Per Dozen, $24 00

**No. 2655**—Two Blades, 3⅛ in. Pearl Handle, Brass Lined . . . . . Per Dozen, $24 00

**No. 2673** Two Blades, 3¼ in. Pearl Handle, German Silver Lined, Full Crocus Polished . . . . . Per Dozen, $27 00

**No. 2662**—Two Blades, 3⅝-in. Pearl Handle, Brass Lined, German Silver Bolster and Cap, Crocus Polished, . . . . . Per Dozen, $36 00

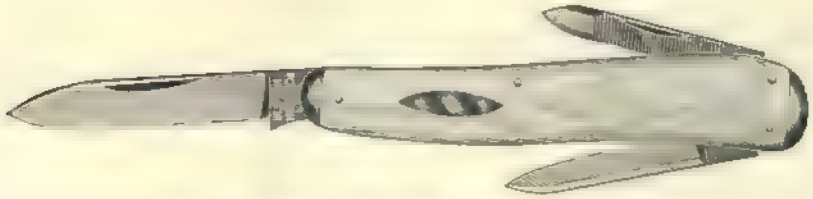
FULL SIZE CUTS

ALL ABOVE ONE-HALF DOZEN IN A BOX

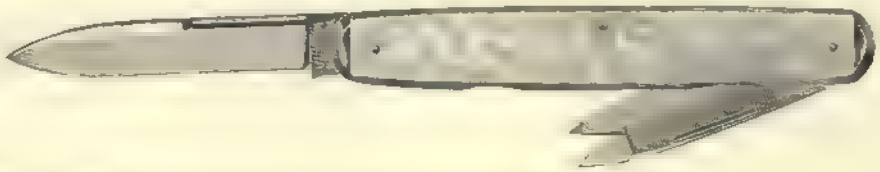
SEATTLE HARDWARE COMPANY

# POCKET KNIVES

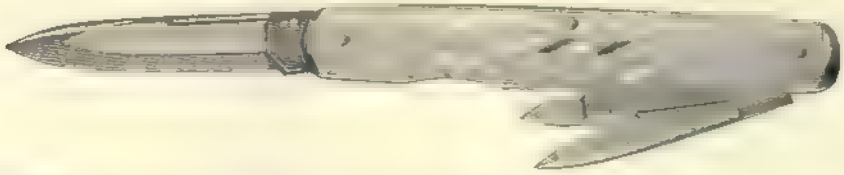
## OCCIDENT—WARRANTED



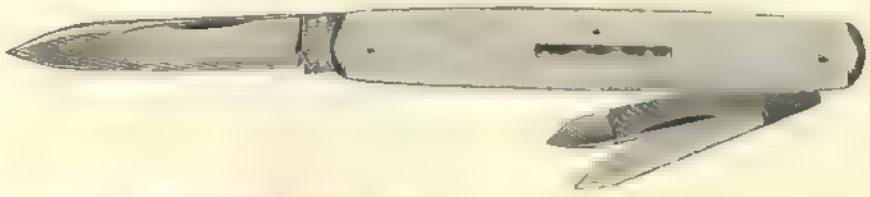
**No. 3950**—Three Blades, 3 in. Shell Handle, Brass Lined, Full Crocus Polished . . . . Per Dozen, $20 00



**No. 3681** Three Blade, 3¼-in. Pearl Handle, German Silver Lined, Full Crocus Polished . . . Per Dozen, $40 00



**No. 4370**—Four Blades, 3¼ in. Ivory Handle, German Silver Lined, Full Crocus Polished . . . . . Per Dozen, $24 00



**No. 4950** Four Blades, 3¼ in. Shell Handle, German Silver Lined, Full Crocus Polished . . . . Per Dozen, $24 00

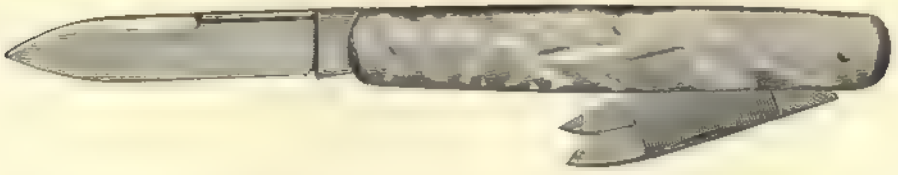
**No. 4460**—Four Blades, 3¼-in. Stag Handle, Brass Lined, Polished . . . Per Dozen, $18 00

FULL SIZE CUTS

ALL ABOVE ONE HALF DOZEN IN A BOX

# POCKET KNIVES

## OCCIDENT—WARRANTED



**No. 3800**—Three Blades, 3¼-in. Shell Handle, German Silver Lined, Full Polished . . . . . Per Dozen, $17 00

**No. 3453**—Three Blades, 3½-in Genuine Stag Handle, Brass Lined, Ful. Crocus Polished Blades Per Dozen, $26 00

**No. 4472** -Four Blades, 3⅛ in. Stag Handle, Brass Lined, Full Crocus Polished . . Per Dozen, $18 00

**No. 4471**—Four Blades, 3¼-in. Stag Handle, German Silver Lined, Full Crocus Polished . Per Dozen, $22 00

**No. 4470**—Four Blades, 3⅛-in. Genuine Stag Handle, German Silver Lined, Full Crocus Polished . . Per Dozen, $32 00

FULL SIZE CUTS

ALL ABOVE ONE-HALF DOZEN IN A BOX

SEATTLE HARDWARE COMPANY

# POCKET KNIVES

## OCCIDENT—WARRANTED

**No. 2641**—Two Blades, 2⅝ in. Pearl Handle, Brass Lined, Polished Bolster . . . . Per Dozen, $15 00

**No. 2651**—Two Blades, 3 in. Pearl Handle, Brass Lined, German Silver Bolsters, Crocus Polished Per Dozen, $14 00

**No. 2640**—Two Blades, 2⅝ in. Pearl Handle, Brass Lined, Crocus Polished . . . . Per Dozen, $16 50

**No. 2657**—Two Blades, 2⅝-in. Pearl Handle, Brass Lined, Ful. Crocus Polished Per Dozen, $15 00

**No. 2650**—Two Blades, 3 in. Pearl Handle, Brass Lined, Crocus Polished . . . . Per Dozen, $17 00

**No. 2653**—Two Blades, 3 in. Smoked Pearl Handle, Brass Lined, Half Crocus Finish . . . . . Per Dozen, $9 00

FULL SIZE CUTS

ALL ABOVE ONE-HALF DOZEN IN A BOX

# POCKET KNIVES

## OCCIDENT—WARRANTED

No. 4642—Four Blades, 3¼ in. Pearl Handle, Brass Lined, Full Crocus Polished, Milled Back..... Per Dozen, $36 00

No. 4644—Four Blades, 3-in. Pearl Handle, Brass Lined, Full Crocus Polished, Milled Back . Per Dozen, $36 00

No. 4643—Four Blades, 3¼ in. Pearl Handle, German Silver Lined, Full Crocus Polished, Milled Back, Per Dozen, $36 00

No. 4670—Four Blades, 3½-in. Pearl Handle, German Silver Lined, Full Crocus Polished. . . . Per Dozen, $40 00
No. 4473—Four Blades, 3½-in. Stag Handle, German Silver Lined, Full Crocus Polished. . . . " 28 00

FULL SIZE CUTS

ALL ABOVE ONE-HALF DOZEN IN A BOX.

# POCKET KNIVES

## OCCIDENT—WARRANTED

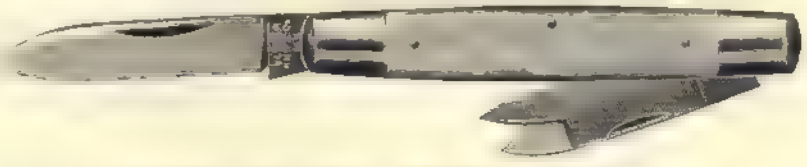
**No. 3640**—Three Blades, $2\frac{1}{2}$ in. Pearl Handle, Brass Lined, Full Crocus Polished. . Per Dozen, $30 00

**No. 3674**—Three Blades, $3\frac{1}{8}$ in. Pearl Handle, Brass Lined, Full Crocus Polished Per Dozen, $30 00

**No. 3643**—Three Blades, $3\frac{1}{8}$ in. Pearl Handle, Brass Lined, German Silver Bolsters, Full Crocus Polished Per Doz., $26 00

**No. 3642**—Three Blades, $3\frac{1}{8}$ in. Pearl Handle, Brass Lined, Full Crocus Polished . . Per Dozen, $29 00

**No. 3670**—Three Blades, $3\frac{1}{8}$ in. Pearl Handle, German Silver Lined, Aluminum Bolsters Per Dozen, $22 00



**No. 3661**—Three Blades, 3-in. Pearl Handle, Brass Lined, Full Crocus Polished . . Per Dozen, $21 00

FULL SIZE CUTS

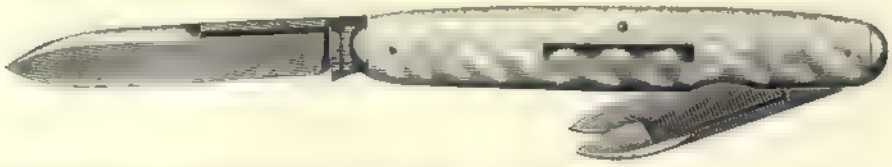
ALL ABOVE ONE-HALF DOZEN IN A BOX.

SEATTLE HARDWARE COMPANY

# POCKET KNIVES

## OCCIDENT—WARRANTED

**No. 4640** Four Blades, 2¾-in. Pearl Handle, Brass Lined, Full Crocus Polished . . . . . Per Dozen, $27 00



**No. 3673** Three Blades, 3¼-in. Pearl Handle, German Silver Lined, Full Crocus Polished . . . Per Dozen, $28 00

**No. 3650**—Three Blades, 3⅜ in. Pearl Handle, Brass Lined, Full Crocus Polished . . . . . Per Dozen, $28 00

**No. 3680**—Three Blades, 3½ in. Pearl Handle, German Silver Lined, Full Crocus Polished, Aluminum Bolsters. Per Dozen, $30 00

**No. 3644**—Three Blades, 3⅜-in. Pearl Handle, Brass Lined, Full Crocus Polished . . . . Per Dozen, $36 00

FULL SIZE CUTS.

ALL ABOVE ONE-HALF DOZEN IN A BOX

# POCKET KNIVES

## OCCIDENT—WARRANTED

**No. 3452**—Three Blades, 2¾-in. Stag Handle, Brass Lined ..... Per Dozen, $17 00

**No. 3450**—Three Blades, 3-in. Stag Handle, Brass Lined ..... Per Dozen, $15 00

**No. 3802**—Three Blades, 3-in. Shell Handle, Brass Lined, Blades Full Polished . . . . Per Dozen, $16 00

**No. 3451**—Three Blades, 3-in. Stag Handle, Brass Lined, Polished . . . . Per Dozen, $18 00

**No. 3803**—Three Blades, 3-in. Smoked Pearl Handle, Brass Lined, Polished . . . . . Per Dozen, $17 00

**No. 3901**—Three Blades, 3¼-in. Smoked Pearl Handle, Brass Lined, Full Polished Per Dozen, $16 00

FULL SIZE CUTS

ALL ABOVE ONE-HALF DOZEN IN A BOX

# POCKET KNIVES

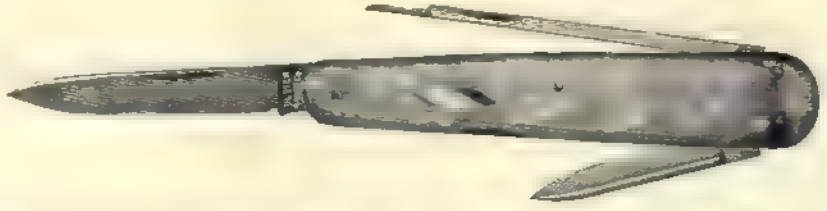
## OCCIDENT—WARRANTED

**No. 3672**—Three Blades, $2\frac{7}{8}$ in. Pearl Handle, German Silver Lined, Full Crocus Polished. . . Per Dozen, $24 00

**No. 3663**—Three Blades, $2\frac{3}{4}$ in. Pearl Handle, Brass Lined, Full Crocus Polished. . . . . Per Dozen, $25 00

**No. 3662**—Three Blades, $2\frac{7}{8}$-in. Pearl Handle, Brass Lined, Full Crocus Polished.. . . . . Per Dozen, $24 00

**No. 3641**—Three Blades, 3-in. Pearl Handle, Brass Lined. Full Crocus Polished . . . . . Per Dozen, $24 00
**No. 3441**—Three Blades, 3 in. Stag Handle, Brass Lined, Full Crocus Polished . . . . . " 15 00



**No. 3671**—Three Blades, $3\frac{1}{8}$ in. Pearl Handle, German Silver Lined, Full Crocus Polished. . . . .Per Dozen, $36 00

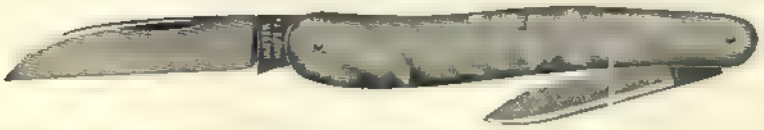
**No. 3664**—Three Blades, 3-in. Pearl Handle, Brass Lined, Full Crocus Polished . . . . . Per Dozen, $28 00

FULL SIZE CUTS.

ALL ABOVE ONE-HALF DOZEN IN A BOX

# POCKET KNIVES

## OCCIDENT—WARRANTED



**No. 2644** Two Blades, 3 in Pearl Handle, Brass Lined, Crocus Polished .. Per Dozen, $20 00

**No. 2652** Two Blades, 3 in Pearl Handle, Brass Lined, German Silver Bolsters . .... Per Dozen, $17 00

**No. 2643** Two Blades 3⅛ in Pearl Handle, Brass Lined, German Silver Bolsters, Crocus Polished .Per Dozen, $19 00

**No. 2671** Two Blades, 3-in Pearl Handle, German Silver Lined, Crocus Polished . . Per Dozen, $28 00

**No. 2670** Two Blades, 3⅛ in Pearl Handle, German Silver Lined, Aluminum Bolsters, Crocus Polished . . ..... Per Dozen, $19 00

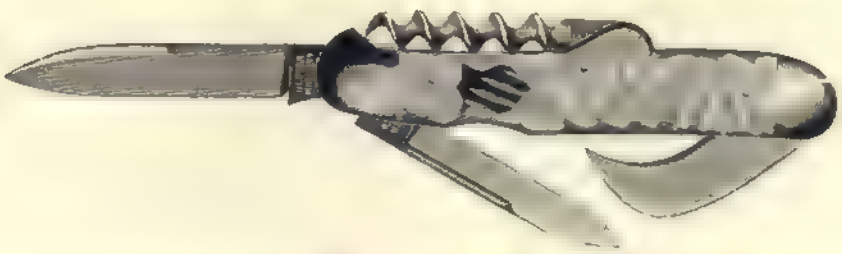
**No. 2642** Two Blades, 3¼-in Pearl Handle, Brass Lined, Crocus Polished. Per Dozen, $24 00

FULL SIZE CUTS

ALL OF ABOVE ONE HALF DOZEN IN A CASE

# POCKET KNIVES

## OCCIDENT—WARRANTED



**No. 4672** -Three Blades and Cork Screw, $3\frac{1}{4}$ in Pearl Handle, German Silver Lined, Full Crocus Polished, ..... Per Dozen, $48 00

**No. 4474** Three Blades and Cork Screw, $3\frac{1}{4}$-in Genuine Stag Handle, German Silver Lined, Full Crocus Polished..... Per Dozen, $36 00

**No. 4671** Four Blades, $3\frac{1}{8}$ in Pearl Handle, German Silver Lined, Full Crocus Polished . Per Dozen, $48 00

**No. 4641**—Four Blades, $3\frac{1}{8}$-in Pearl Handle, Full Crocus Polished .. . Per Dozen, $36 00

FULL SIZE CUTS.

ALL ABOVE ONE-HALF DOZEN IN A BOX

SEATTLE HARDWARE COMPANY

# POCKET KNIVES

## OCCIDENT—WARRANTED

**No. 2901**—Two Blades, 3-in. Smoked Pearl Handle, Brass Lined .. Per Dozen, $9 00

**No. 2902**—Two Blades, 3-in. Celluloid Handle, Brass Lined..... Per Dozen, $8 00

**No. 2342**—Two Blades, 3¼ in Ivory Handle, Brass Lined, Polished Bolsters, Spear Point... .. Per Dozen. $10 00
**No. 2243** Two Blades, 3¼ in Ebony Handle Brass Lined, Polished Bolsters, Spear Point " 8 00

**No. 2443** Two Blades, 3⅛ in Stag Handle, Brass Lined, Polished Bolsters, Spear Point . . . . Per Dozen, $10 00

**No. 2452**—Two Blades, 3½-in. Stag Handle, Brass Lined ..... Per Dozen, $10 00

**No. 2475** Two Blades, 3¼ in Stag Handle, German Silver Lined Spear Point Per Dozen, $13 00

FULL SIZE CUTS

ALL OF ABOVE ONE-HALF DOZEN IN A BOX

# MAIL BOXES

### Apartment House Mail Box

Cast Brass Front 9x4 in. attached to tin receptacle 7x4 in. x 2½ in. deep. Glass Pane. Holder for card, fitted with secure Cylinder Lock. Square Edges to fit flush.

| No. | | Per Doz. |
|---|---|---|
| **0B775**—Dull Brass Finish | | $36 00 |

ONE-TWELFTH DOZ IN A CARTON WT. 2 LBS.

### House Mail Box

Size 2¼x5¼x11½ in., Wrought Steel

| No. | | Per Doz |
|---|---|---|
| **2417**—Japanned Black | | $8 00 |

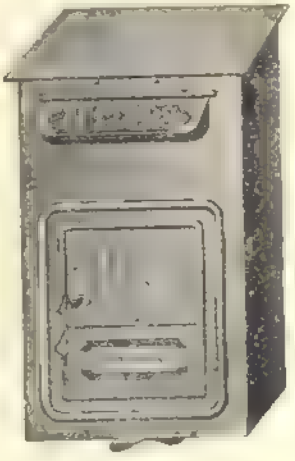
EACH IN A BOX WT. 3 LBS

### House Mail Box

Size 2¼x5½x11½ in., Wrought Steel.

| No. | | Per Doz. |
|---|---|---|
| **2416**—Dull Brass Finish | | $11 00 |
| **2418**—Antique Copper Finish | | 11 00 |

EACH IN A BOX WT. 2 LBS.



### House Mail Box

Size 2¾x5½x10½ in., Wrought Steel.

| No. | | Per Doz. |
|---|---|---|
| **2**—Japanned Dull Black Finish | | $18 00 |

EACH IN A BOX. WT. 3 LBS

### House Mail Box

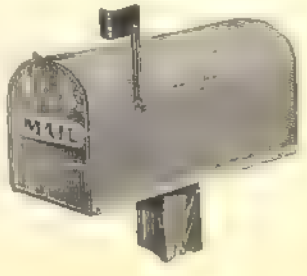
| No. | | Per Doz |
|---|---|---|
| **10**—2¼ x 5¼ x12, 24-Gauge Steel, Ivory Black Finish | | $12 00 |

EACH IN A BOX WT. 2 LBS

### Rural Free Delivery Mail Box

| No. | | Per Doz |
|---|---|---|
| **2RFD**—Size 6x8x19 in., with Padlock Hasp, No. 22 Galvanized Steel. Locking Flag Signal | | $16 00 |

ONE-HALF DOZ IN A CRATE. WT 45 LBS




SEATTLE HARDWARE COMPANY

# HAMMERS

## RIVETING

### Occident

Plain Eye, Solid Crucible Cast Steel, Polished

| No. | Weight Each Not Inc Hdle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 141 | 1 lb. 2 oz. | 20 lbs. | $7 25 |
| 142 | 12 oz. | 15 lbs. | 6 00 |
| 143 | 7 oz. | 9½ lbs. | 5 25 |
| 144 | 4 oz. | 7 lbs. | 5 00 |

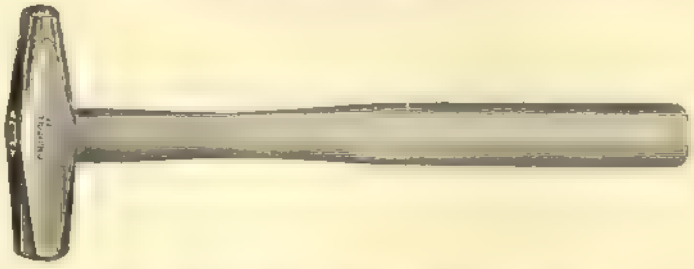
ONE HALF DOZEN IN A BOX

### Maydole's

Plain Eye, Crucible Cast Steel, Polished

| No. | Weight Each Not Inc Hdle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 43 | 7 oz. | 9½ lbs. | $5 25 |

## SAW SWAGING



| No. | | Per Doz. |
|---|---|---|
| 243 | Crucible Cast Steel, Polished, Weight not including Handle 8 oz | $6 75 |

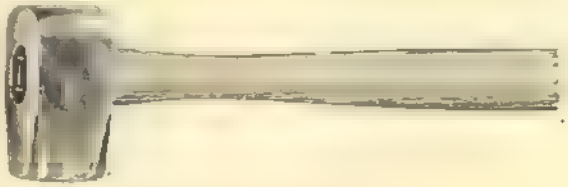
ONE-HALF DOZEN IN A BOX. WEIGHT DOZEN 11 LBS.

## SHINGLE WEAVER'S OR PACKER'S

| No. | | Per Doz. |
|---|---|---|
| 260B | Solid Cast Steel, Weight not including Handle 12 oz | $15 00 |

ONE-HALF DOZEN IN A BOX WEIGHT DOZEN, 14 LBS

## PROSPECTING



| No. | | Per Doz. |
|---|---|---|
| 682 | Solid Cast Steel, Oil Finish, Weight not including Handle 1 lb. 12 oz | $12 50 |

ONE HALF DOZEN IN A BOX WEIGHT DOZEN 36 LBS

## BRICKLAYERS'

Solid Cast Steel, Oil Finish.

| No. | Weight Each Not Inc Hdle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 562 | 1 lb. 14 oz | 35 lbs. | $12 00 |
| 563 | 1 lb. 6 oz | 27 lbs. | 11 00 |

## SCALING HAMMERS OR BOILER PICKS

Solid Cast Steel, Oil Finish, Unhandled.

| No. | | Per Pound |
|---|---|---|
| 1070 | Weight each 1 lb. | $0 75 |

# HAMMERS

## BLACKSMITH'S HAND

| No. | | Per Pound |
|---|---|---|
| 860 | Western Pattern, Solid Cast Steel, Polished Face, Oil Finish, Weights 4 and 4½ lbs | $0 40 |

## HAND DRILLING

| No. | | Per Pound |
|---|---|---|
| 760B | California Pattern, Solid Cast Steel, Polished Face, Oil Finish, Weight 3, 3½ and 4 lbs | $0 50 |

## DOUBLE-FACE STRIKING

**Nevada or Long Pattern**

Solid Cast Steel, Polished Face, Oil Finish.

| No. | | Per Pound |
|---|---|---|
| 750 | Weights 3 to 4½ lbs | $0 40 |
| | Weights 5 to 12 lbs | 30 |

**Oregon or Short Pattern**

Solid Cast Steel, Polished Face, Oil Finish.

| No. | | Per Pound |
|---|---|---|
| 760 | Weights 6 to 20 lbs | $0 30 |

## SPAULING OR STONE

**Single Face**

Solid Cast Steel, Polished Face, Oil Finish.

| No. | | Per Pound |
|---|---|---|
| 710 | Weights 5 to 15 lbs | $0 40 |

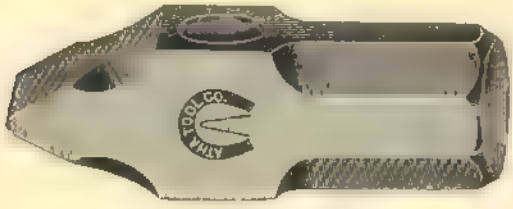
**Double Face**

Solid Cast Steel, Polished Face, Oil Finish.

| No. | | Per Pound |
|---|---|---|
| 720 | Weights 3 to 4½ lbs | $0 50 |
| | Weights 5 to 18 lbs | 40 |

# SLEDGES

## BLACKSMITHS'



**Cross Pein**

Solid Cast Steel, Polished Face, Oil Finish.

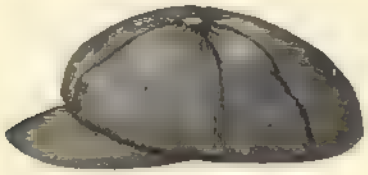
| No. | | Per Pound |
|---|---|---|
| 830 | Weights 7, 8, 10, 12, 14 and 16 lbs | $0 30 |

**Straight Pein**

Solid Cast Steel, Polished Face, Oil Finish

| No. | | Per Pound |
|---|---|---|
| 840 | Weights 7, 8, 10, 12, 14 and 16 lbs | $0 30 |

# BASEBALL CAPS

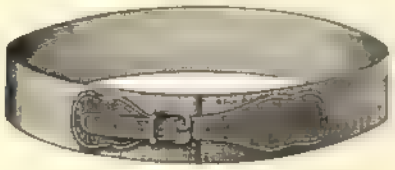


Boston Style

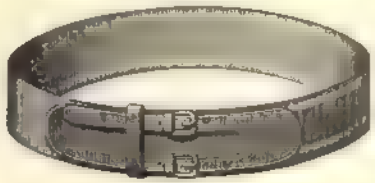
| | | | |
|---|---|---|---|
| **No. 100**—Boston Style; Navy, White Corded | Each, | $1 | 00 |
| **No. 75**—Boston Style; Navy, Gray Corded, and Gray, Maroon Trimmed | " | | 75 |
| **No. 50**—Boston Style; Navy, Maroon or Gray | " | | 50 |
| **No. 25**—Boston Style; Gray or Blue | " | | 25 |

*When ordering, specify color and size.*

# BELTS



No. 75



Nos. 50 and 25

| | | | |
|---|---|---|---|
| **No. 75**—Best Grade Worsted Web Belt, 2½ in. Wide, Leather Lined, Harness Buckle | Each, | $0 | 75 |
| **No. 50**—High Grade Leather Belt, 1¼ in. Wide, Nickel Buckle, one Loop | " | | 50 |
| **No. 25**—Best Cotton Web Belt, Double Buckles, Navy, Maroon or White | " | | 25 |

SEATTLE HARDWARE COMPANY

# UNIFORM BAGS

| | | | |
|---|---|---|---|
| **No. 500**—League Uniform Bag. Fine Quality Grain Leather. Designed to Roll: a convenient bag for packing uniforms in a manner that will not wrinkle or soil them. Oilcloth Curtains, Size 40x22 in. | Each. | $5 | 00 |
| **No. 300**—Heavy Weight Tan Canvas, otherwise same as No. 500 | " | 3 | 00 |

# BAT BAGS

No. 300

No. 300L

No. 100

| | | | |
|---|---|---|---|
| **No. 300**—Heavy Duck, Leather Trimmed, Holds 12 Bats | Each. | $4 | 00 |
| **No. 300L**—Fine Sole Leather, Holds 2 Bats, open at both ends | " | 4 | 00 |
| **No. 100**—Good Brown Canvas, Holds 2 Bats, Leather Capped at Bottom | " | 1 | 25 |

# BASEBALL ACCESSORIES

## SHOES

**No. 600**—Very Highest Quality Baseball Shoe, made on Popular Sprinter Last, Hand Made from Best Kangaroo, with Low Tops, Equipped with Finest Hand-Forged Steel Plates..... .....Per Pair, $6 00

**No. 500**—League, made from a Good Quality Dull-Finish Calfskin Stock on Special Baseball Shoe Last, League Cut, Goodyear Welt, Equipped with Best Quality Tempered Steel Plates with Beveled Edges, a Strictly High Grade Shoe. .Per Pair, 5 00

**No. 400**—The Amateur, made from a Good Quality Leather Stock, and Equipped with Good Quality Tempered Steel Plates, a very attractive Shoe..Per Pair, 4 00

## HOSE

**No. 150**—Best Quality Worsted, Ribbed .Per Doz., $18 00
**No. 100** League, a Good Weight Worsted Hose, Ribbed. . Per Doz., 12 00
**No. 75**—Club, a Good Wool Hose. ... " 9 00
**No. 50**—Amateur, Extra Heavy, Ribbed Cotton.....Per Doz., 6 00

*Stock Colors, White, Black, Navy Blue, Maroon, Navy and White, Crimson and White, Maroon and White.*

## SUPPORTERS

**The Bike Jock Strap Suspensory**

**No. 75** —Elastic Throughout .....Per Doz., $9 00
**No. 75B**—Same as Bike Jock, Except with Balbriggan Forepiece .....Per Doz., 6 00

## PROTECTORS

**No. 250** —Abdominal Protector, made of Aluminum Padded with Best Wool Felt. Complete with Belt and other Straps for fastening. To be used with any supporter or suspensory.... ....Each, 2 50

*Small, will fit waist measure 22 to 28 in. Medium, will fit waist measure 30 to 38 in. Large, will fit waist measure 40 to 48 in.*

## ANKLE SUPPORTERS

Nos. 75 and 100

## WRIST SUPPORTERS

No. 35

**No. 100**—Tan Calfskin Leather Ankle Supporter, Hackey Pattern, Sizes 6 to 10. ..Per Pair, $1 00
**No. 75**—Tan-Colored Leather Ankle Supporter, Hackey Pattern, Sizes 6 to 10. " 75
**No. 25**—Leather Wrist Supporter, Calfskin, Strap 2 in. wide with Single Buckle. . . .Per Doz., 3 00
**No. 35**—Leather Wrist Supporter, Calfskin, Strap 2½ in. wide with Double Buckle . . " 4 00

# SHOTGUNS

## NEW ITHACA—DOUBLE BARREL. HAMMERLESS

### Field Grade

Imported smokeless-powder steel barrels, double thick nitro breech, selected black walnut stock and fore-end, half pistol grip, nicely checkered, case hardened drop-forged steel frame, blued and polished; scroll engraving. Locks simple and durable, made of best quality tool steel, hardened and tempered, cross bolt, self compensating automatic rebounding locks.

**No. 12F**—12 Gauge, 30 in. Barrels ..... Each, $30 00
**No. 16F**—16 Gauge, 28-in Barrels ..... " 30 00
**No. 20F**—20 Gauge, 28 in Barrels ..... " 30 00

## HOPKINS & ALLEN

### Hammer Gun

Decarbonized steel barrels, matted extension rib, selected walnut stock, full pistol grip, checkered, rubber butt-plate, Purdy pattern fore end, case hardened frame; left barrel full choke, right barrel modified choke bored.

**No. 10012**—12 Gauge, 30-in. Barrels ..... Each, $15 00
**No. 10016**—16 Gauge, 28-in. Barrels ..... " 15 00

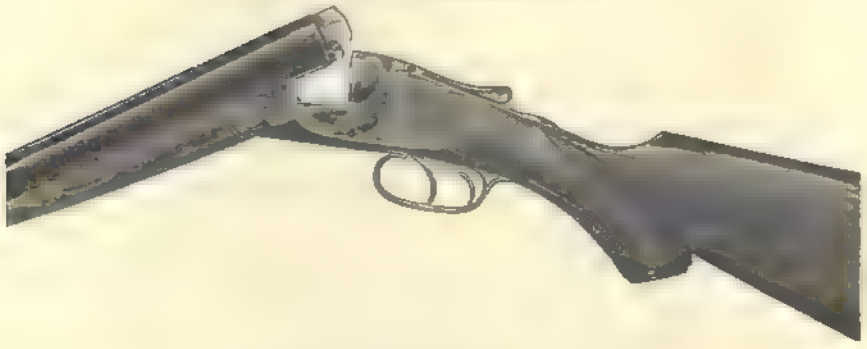
### Hammerless

Decarbonized steel barrels, matted extension rib, selected English walnut stock, full pistol grip, checkered, rubber butt-plate, Purdy pattern fore-end, case hardened frame, automatic safety; left barrel full choke bored, right barrel modified choke.

**No. 11012**—12 Gauge, 30-in. Barrels ..... Each, $20 00
**No. 11016**—16 Gauge, 28-in. Barrels ..... " 20 00

# SHOTGUNS

## A. H. FOX. HAMMERLESS



### Standard Sterlingworth

Fluid compressed steel barrels adapted to smokeless or black powders, full choke, American walnut stock, full pistol cap grip, rubber butt-plate, patent snap fore-end.

**No. 12SS** —12 Gauge, 30-in. Barrels ..... Each, $35 00
**No. 16SS** 16 Gauge, 28-in. Barrels ..... " 35 00
**No. 20SS** —20 Gauge, 28-in. Barrels ..... " 35 00
**No. 12SSE** 12 Gauge, 30-in. Barrels, with Automatic Ejector ..... " 45 00
**No. 16SSE** 16 Gauge, 28-in. Barrels, with Automatic Ejector ..... " 45 00
**No. 20SSE**—20 Gauge, 28-in. Barrels, with Automatic Ejector ..... " 45 00

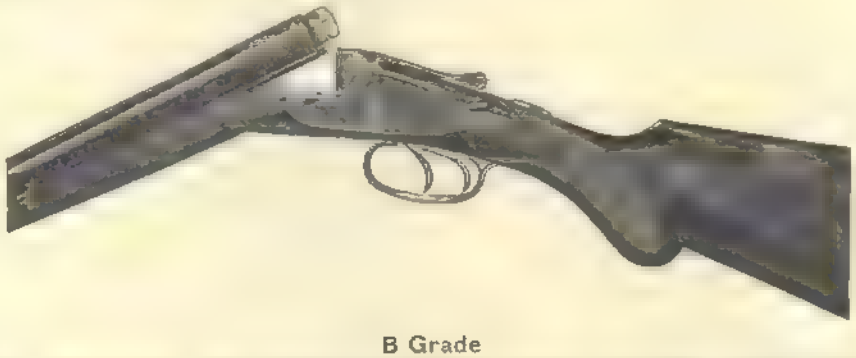
### Field Sterlingworth

**No. 12SF**—12 Gauge, 28-in. Barrels. Right Barrel Modified, Left Barrel Full Choke ..... Each, $35 00

### A Grade

Genuine Krupp fluid steel barrels, adapted to smokeless or black powders, dark walnut stock, rubber butt-plate, checkered and engraved.

**No. 12A** —12 Gauge, 30-in. Barrels. ..... Each, $50 00
**No. 12AE**—12 Gauge, 30-in. Barrels, with Automatic Ejector ..... " 60 00



### B Grade

Genuine Krupp fluid steel barrels, dark English walnut stock, rubber butt plate, artistic engraving, pistol grip
**No. 12BE**—12 Gauge, 30-in. Barrels, with Automatic Ejector.. ..... Each, $80 00

### C Grade

High-quality Krupp fluid steel barrels, selected curly English walnut stock, rubber butt plate, artistic engraving, handsomely finished.
**No. 12CE**—12 Gauge, 30-in. Barrels, with Automatic Ejector ..... Each, $100 00

SEATTLE HARDWARE COMPANY

# SPEED INDICATORS

**Veeder Speed Indicator or Counter**

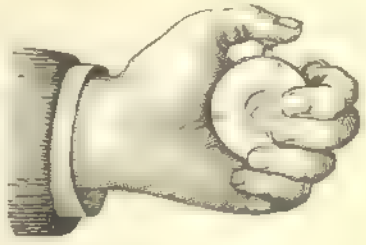
Works equally well right or left. A ball thrust bearing is provided for the spindle which insures free and easy operation at all speeds up to 5,000 revolutions per minute. Straight reading index is easy to read and avoids errors. Each ..... $5 00

## COUNTERS

**Elm City Revolution Counters**

Brass Case, Best Steel Pinions, Ratchet Wheel and Lever; can be set back to zero or to repeat when largest number is reached.

| No. | Each |
|---|---|
| 5—$5\frac{1}{2}$ x $1\frac{3}{4}$ x $\frac{5}{8}$ in., counts to 100,000 | $10 00 |



**Benton Tally Registers**

Used by freight and cattlemen, lumbermen, log scalers, timber estimators, etc. Heavy Brass Case, Nickel Plated

| No. | Each |
|---|---|
| No. 0—Registers 0 to 999 | $4 00 |
| No. 1—Registers 0 to 9999 | 6 00 |

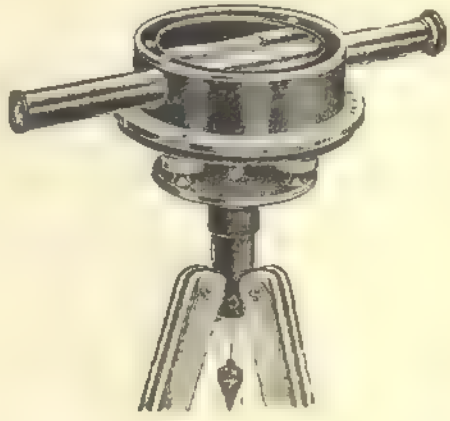
# SURVEYING INSTRUMENTS

## BOSTROM'S

**Farm Level**

With Magnifying Glasses in the Telescope, enables you to read the cross on the target at a distance of over 100 yards. For draining, irrigating, terracing, grading, road building, leveling foundations, etc.

| No. | Each |
|---|---|
| 2—Iron Case, Brass Telescope, regular graduations; complete with Tripod, Target and Plumb Bob, with Box for Level. Weight 17 Lbs. | $17 00 |



**Builder's Level**

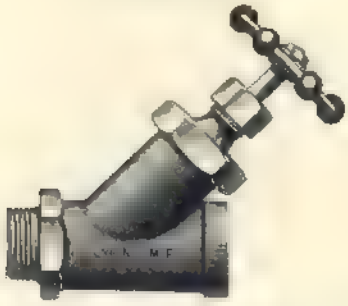
Achromatic Telescope magnifying 10 to 12 Diameters, doing accurate work at long range. Graduated Circle divided to 360 degrees, numbered from zero to 90 degrees in both directions. The cross hairs are set in the eye piece.

| No. | Each |
|---|---|
| 3—Bronze Case, Brass Telescope, fine graduations; complete with Tripod, Graduated Rod, Target and Plumb Bob, with full instructions for adjusting; with Oak Box for Level. Weight 15 lbs. | $25 00 |

SEATTLE HARDWARE COMPANY

# VALVES

## BLOW-OFF



**Medium Pattern, Regrinding, Brass, Female Ends, or Male and Female Ends**

For working pressure up to 200 pounds

| Size, in | ¾ | 1 | 1¼ | 1½ | 2 | 2½ |
|---|---|---|---|---|---|---|
| Weight Each, lbs | 2¾ | 3¼ | 4⅜ | 6¼ | 11 | 19 |
| No. 227—Female Ends.....Each, | $2 75 | 3 25 | 4 50 | 5 75 | 9 00 | 18 50 |
| No. 543—Male and Female Ends " | $.... | 3 25 | 4 50 | 5 75 | 9 00 | . |

## DURO BLOW-OFF

**Iron Body, Brass Mounted. Self-Cleaning Seat, Screw Ends**

For working pressure up to 250 pounds.

| Size, in | 1¼ | 1½ | 2 | 2½ | 3 |
|---|---|---|---|---|---|
| Weight Each, lbs | 33½ | 43½ | 58½ | 87 | 120 |
| No. 896—Screw Ends.....Each, | $10 70 | 12 50 | 16 00 | 21 00 | 27 50 |

# STEAM WHISTLES

**No. 441—All Brass, With Valve**

| Diameter Bell, in. | 1 | 1¼ | 1½ | 2 | 2½ | 3 |
|---|---|---|---|---|---|---|
| Connection, in | ¼ | ¼ | ⅜ | ½ | ¾ | ¾ |
| Weight, lbs | 1 | 1⅓ | 1½ | 3½ | 5⅝ | 7 |
| Each | $3 10 | 3 75 | 4 00 | 5 50 | 7 40 | 8 50 |

| Diameter Bell, in. | 3½ | 4 | 5 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|
| Connection, in | 1 | 1¼ | 1½ | 1½ | 2 | 2½ |
| Weight, lbs | 10½ | 12 | 20 | 29½ | 70 | |
| Each | $13 00 | 16 50 | 27 50 | 37 50 | 95 00 | 210 00 |

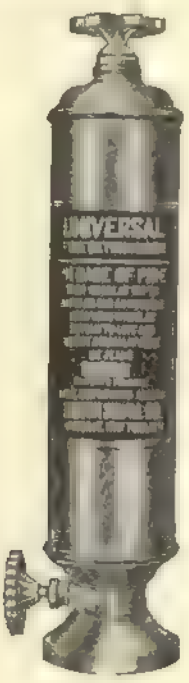
**No. 447—Single Bell Chime, With Valve, All Brass**

| Diameter Bell, in. | 1½ | 2 | 2½ | 3 | 3½ |
|---|---|---|---|---|---|
| Connection, in | ⅜ | ½ | ¾ | ¾ | 1 |
| Weight, lbs. | 17⅛ | 28¾ | 53½ | 7 | 10½ |
| Each | $7 00 | 10 00 | 13 00 | 16 00 | 22 00 |

| Diameter Bell, in. | 4 | 5 | 6 | 8 | 10 |
|---|---|---|---|---|---|
| Connection, in | 1¼ | 1½ | 1½ | 2 | 2½ |
| Weight, lbs. | 12¾ | 20 | 30 | 70 | |
| Each | $28 00 | 44 00 | 60 00 | 145 00 | 235 00 |

# FIRE EXTINGUISHERS

Cascade




Universal

Heavy Brass.

Approved by the board of underwriters and the United States Steamboat Inspection service. Tested to 300-pound pressure. Shell and base are one continuous piece of cold-rolled, hard-tempered copper. The Cascade is the most heavily constructed extinguisher on the market.

**Cascade Extinguisher**—Complete ..... Each, $15 00

| | | |
|---|---|---|
| Extra Glass Bottles and Stoppers. ...Per Dozen, | | 2 25 |
| Extra Cages for Bottles ..... | " | 7 50 |
| Extra Hose, Complete with Couplings and Nozzle, ..... Per Dozen, | | 10 75 |
| Extra Charges..... | " | 6 40 |
| Extra Lead Stoppers.. Each, | | 20 |

The Universal is a liquid-gas extinguisher. It is one of several makes on the market designed for using carbon tetrachloride for extinguishing fires. The gas is vaporized at a temperature of about 300° and forms a dense white cloud, which is attracted by the flame, settles down on it and simply smothers it by depriving it of oxygen. It will extinguish gasoline or kerosene fires instead of spreading them. The liquid used is a well known chemical, and the operation is very simple. It can be sprayed on silk fabric without injury. Can be used on a dynamo in full operation without bad effect. The Universal is especially adapted for fire protection on automobiles, gasoline boats, oil houses and in regions where ordinary extinguishers may freeze, as the Universal will remain in perfect working order in a temperature 60° below zero.

**Universal Extinguisher**—Complete... Each, $9 00

| | | |
|---|---|---|
| Extra Fluids, in Quart Cans .. | " | 1 00 |
| Extra Fluids, in Gallon Cans.. ..... | " | 4 00 |
| Extra Capsules. | .Per Dozen. | 3 25 |

## DRY-POWDER FIRE EXTINGUISHERS

Keystone

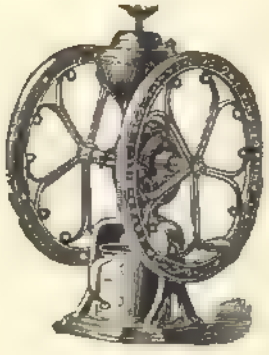
For gasoline launches. The United States marine laws require these on every launch.

**Keystone**. . . . . ..Per Dozen, $9 00

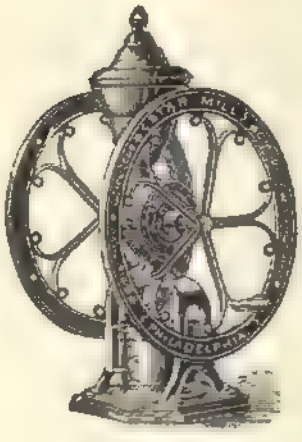
SEATTLE HARDWARE COMPANY

# COFFEE MILLS

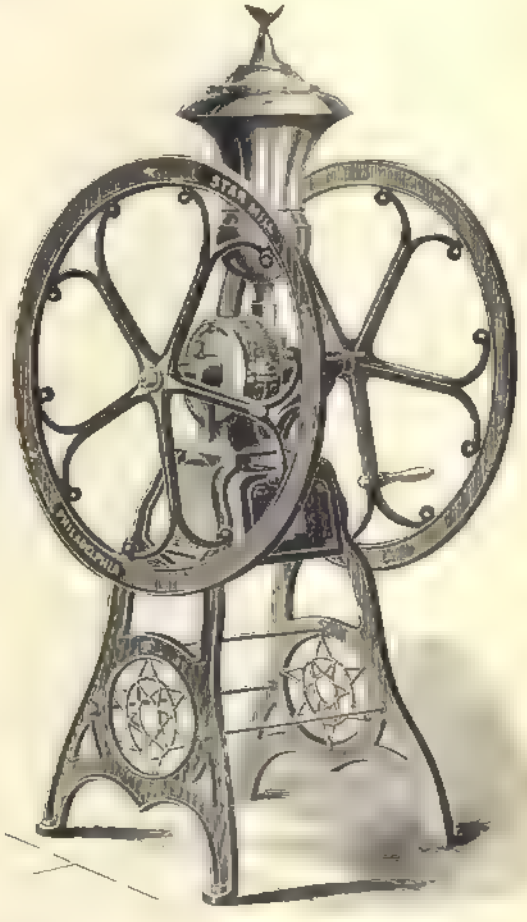
## TROEMNER'S STAR



Nos. 7 and



Nos. 8 and 11

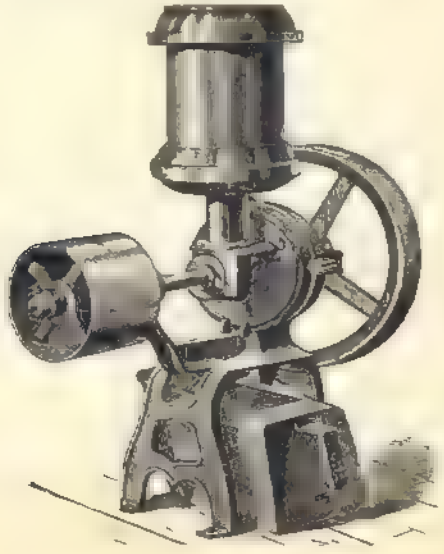


No. 18

Highly ornamented. Finished in vermilion and gold.

| No | Height, In. | Diam Wheels, In. | Grinds Coffee per Minute | Weight Each, Lbs | Each |
|---|---|---|---|---|---|
| 7—Iron Hopper | 21 | 15 | 1 lb. | 80 | $15 00 |
| 8—Nickel-Plated Hopper | 28 | 20 | 1 lb. | 100 | 24 00 |
| 9—Iron Hopper | 27 | 20 | 1 lb. | 115 | 24 00 |
| 10—Nickel-Plated Hopper | 33 | 23 | 1½ lb. | 125 | 34 50 |
| 18—Nickel-Plated Hopper | 67 | 34 | 3½ lb. | 350 | 67 50 |

ALL PACKED ONE IN A CRATE



## TROEMNER'S STAR PULVERIZER

### For Power Only

This machine is very compact and will fit in a space 26 inches long and 22 inches high (hopper excluded) Fly wheel, 16 inches diameter; tight and loose pulleys, 8 inches diameter, 3 inch face

Will reduce or grind coffee to the fineness of flour; must run 400 revolutions per minute.

**Star Pulverizer**—Weight, 200 lbs . . . . Each, $45 00

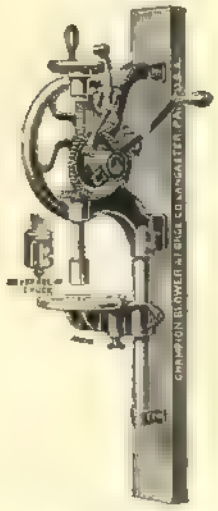
BOXED FOR SHIPMENT

SEATTLE HARDWARE COMPANY

# UPRIGHT DRILLS

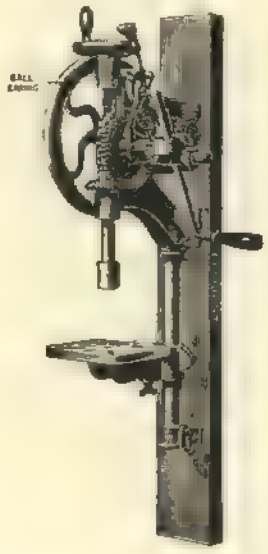
Self-Feeding

CHAMPION



No. 98

OCCIDENT

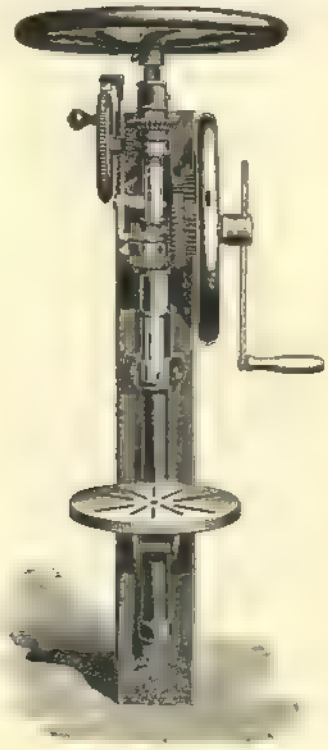


No. 100

**No. 98**—One Speed, Back Geared, Bearings Ground to a Working Fit out of Solid Metal, Bored to take ½ in. Straight Shank Drills 1/64 to 1 in., Drills to the Center of a 14 in. Circle; Net Wt. Each, 95 lbs. ..... Each, $12 00

**No. 100**—Back Geared, with Improved Three Gear Principle, giving second speed same crank motion as on first speed, Double Journal Bearings to all Working Parts, all Bearings Ground to a Working Fit out of Solid Metal, Up and Down Run 8½ in., Spindle 1¼ in. Diameter, Bored to take ½ in. Straight Shank Drills 1/64 to 1¼ in., Drills to Center of a 16-in. Circle; Net Weight Each, 130 lbs. ..... Each, 20 25

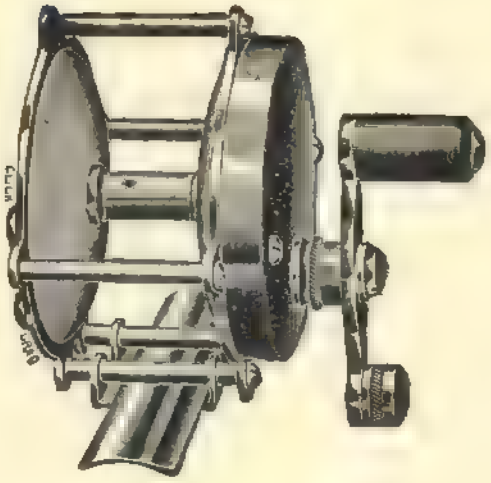
BLACK DIAMOND



**No. 260**—Compound Gearing, Bearings Ground to a Working Fit out of Solid Metal, Double Speed, which may be changed instantly, 1¼ in. Spindle, Bored for ½ in. Straight Shank Drills 1/64 to 1½ in., Drills to Center of an 18-in. Circle; Net Weight Each, 200 lbs. ..... Each, $30 00

# FISHING REELS

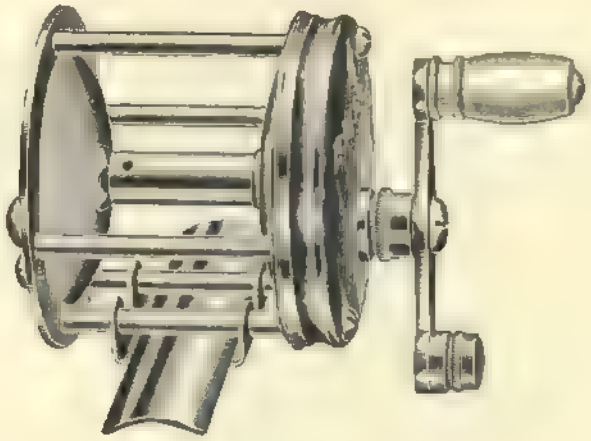
## MULTIPLYING



**Multiplying. Nickel Plated**

Raised Pillar, Adjustable Click and Drag

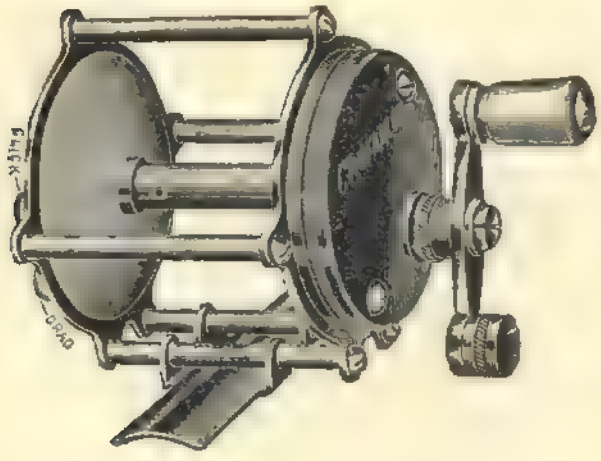
| No. | Yds. | Pillar | Disc | Per Doz. |
|---|---|---|---|---|
| **2022**— | 40 | 1 in. | 2 in. | $ 9 00 |
| **2032**— | 60 | 1 in. | 2½ in. | 10 00 |
| **2042**— | 80 | 1⅛ in. | 2⅝ in. | 11 50 |
| **2052**— | 100 | 1¼ in. | 2¾ in. | 15 00 |
| **2062**— | 150 | 1¼ in. | 3 in. | 18 00 |



**Multiplying. Nickel Plated**

Round Plate, Adjustable Back Sliding Click and Drag, Fancy White-Bone Handle

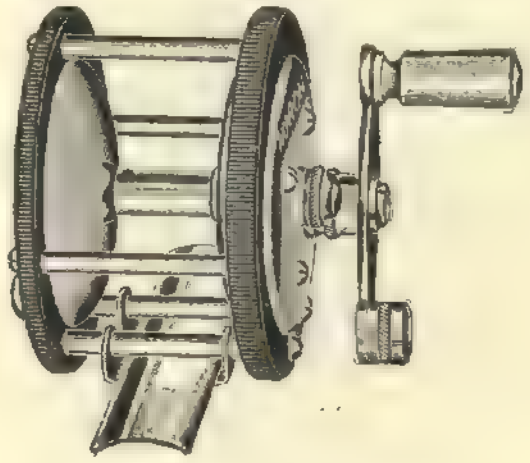
| No. | Yds. | Pillar | Disc | Per Doz. |
|---|---|---|---|---|
| **2122**— | 40 | 1⅜ in. | 2 in. | $12 00 |
| **2132**— | 60 | 1⅜ in. | 2½ in. | 13 00 |
| **2142**— | 80 | 1⅜ in. | 2½ in. | 14 00 |
| **2152**— | 100 | 1⅜ in. | 2¾ in. | 15 00 |



**Multiplying. Nickel Plated**

Adjustable Back Sliding Click and Drag Bushing and Oil Cup on Back Plate.

| No. | Yds. | Pillar | Disc | Per Doz. |
|---|---|---|---|---|
| **2123**— | 40 | 1 in. | 2 in. | $12 00 |
| **2133**— | 60 | 1 in. | 2½ in. | 14 00 |
| **2143**— | 80 | 1⅛ in. | 2½ in. | 16 00 |
| **2153**— | 100 | 1¼ in. | 2¾ in. | 18 00 |



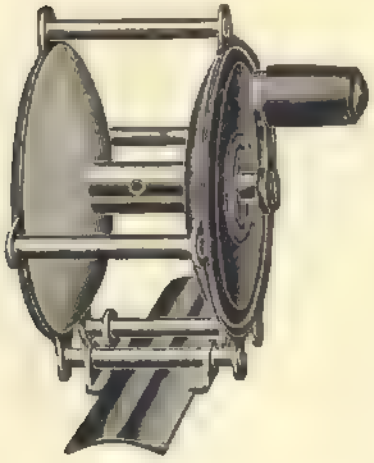
**Multiplying. Jeweled, Rubber Plates**

Metal parts Nickel Plated. Metal Disc on top Plate. White Celluloid Handle.

| No. | Yds. | Pillar | Disc | Per Doz. |
|---|---|---|---|---|
| **4400**— | 60 | 1⅛ in. | 2¼ in. | $30 00 |

# FISHING REELS

## SINGLE-ACTION



### Single-Action, Brass

| No. | Yds. | Pillar | Disc | Per Doz. |
|---|---|---|---|---|
| 1021— | 40 | 1 in. | 2 in., without Click | $2 00 |
| 1121— | 40 | 1 in. | 2 in., with Click | 2 50 |

### Single-Action, Nickel Plated, With Click

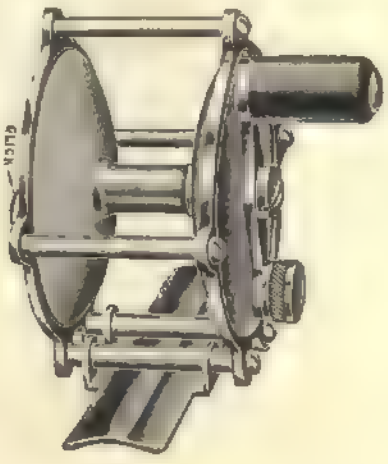
| No. | Yds. | Pillar | Disc | Per Doz |
|---|---|---|---|---|
| 1222 - | 40 | 1 in. | 2 in | $3 50 |
| 1232— | 60 | 1 in. | 2½ in | 4 00 |

SEATTLE HARDWARE COMPANY

### Sing-Action, Brass

With Ring Clamp and Click

| No | Yds | Pillar | Disc | Per Doz. |
|---|---|---|---|---|
| 1022 - | 40 | 1 in. | 2 in | $4 00 |



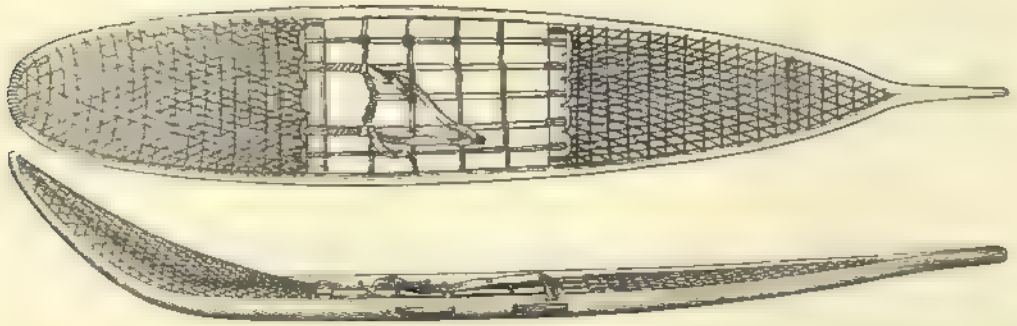
### Single-Action, Nickel Plated

Flush Balanced Handle, Adjustable Back Sliding Click,

| No. | Yds. | Pillar | Disc | Per Doz |
|---|---|---|---|---|
| 1332 | 60 | 1 in. | 2¼ in | $9 00 |

# SNOWSHOES

## COOK'S INLET



### Rawhide Netting

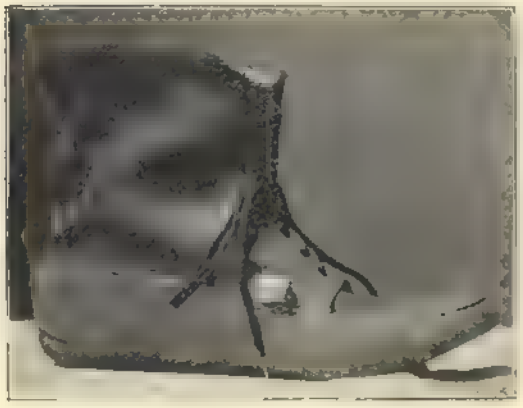
**No. 1**—Cook's Inlet, 54, 56, 58 and 60 x 10 in. wide.....Per Pair, $8 00
**No. 1**—Cook's Inlet, 64, 65, 66, 67 and 68 x 10 in. wide..... " 9 00

## RAWHIDE SNOWSHOE FILLING

**Rawhide Snowshoe Filling**.....Per Pound, $2 00



# MOCCASINS



Lace, Hand Made, Oil Tan Moose Bottoms,
Oil Tan Moose Tops.

**No. 1**—7 in. High, Sizes 11 and 12 Per Pair, $5 00

Lace, Hand Made, Indian Tan Moose Bottoms,
Indian Tan Buckskin Tops.

**No. 2**—8 in. High, Sizes 11 and 12 ...Per Pair, $6 00

# FIELDERS' GLOVES

Nos. 100 and 100S.

| No. | | Each |
|---|---|---|
| 100 | —Best quality Black Napa Leather, kid lined throughout, web thumb, welted seams sewed with best waxed thread, well padded at heel and around edges | $1 00 |
| 100S | —Olive-Green Napa Leather, lined with kid, web thumb, welted seams sewed with waxed linen thread, padded at heel and around edges | 1 00 |
| 75 | Genuine White Napa Leather, palm leather lined, web thumb, welted seams, well padded | 75 |
| 75S | —Brown Napa Leather, palm leather lined, web thumb, welted seams, palm well padded, men's size | 50 |
| 50 | —Brown Napa Leather, palm leather lined, web thumb, strongly sewed, well padded, men's size | 50 |
| 50S | —Black Tanned Leather, web thumb, thoroughly made, well padded, men's size | 50 |
| 25 | —Chrome Tanned Leather, palm leather lined, web thumb, well padded, strongly made, boys' size | 35 |

Nos. 50 and 50S.

Nos. 75, and 75S

No. 2

# BASEBALL MASKS

No. 400.

| No. | | Each |
|---|---|---|
| 400 | —Finest extra-heavy black-finished Bessemer Steel Wire, extra-wide frame, electro welded, open vision, special ear protection. Fitted with continuous, hair-stuffed, tan kid pads, securely laced to frame; detachable sun-shade, elastic overhead strap | $4 50 |
| 300 | —Finest extra-heavy black-finished Bessemer Steel Wire, electro welded, open vision, with throat and ear protection. Fitted with full-length hair-filled side pads laced to the mask, molded-leather chin and forehead pads, elastic overhead strap | 3 50 |
| 250 | —Same as No. 300 with open vision but without throat protection | 3 00 |
| 200 | —Finest Bessemer Steel Wire, electro welded, open vision, full-length hair-filled pads laced to frame, molded head and chin pieces, elastic head strap | 2 50 |
| 150 | —Electro-welded Steel Wire, open vision, hair-stuffed leather pads, molded head and chin pieces, elastic head strap | 1 75 |
| 100 | —Boy's Mask, made of electro-blued Steel Wire, side pads | 75 |
| 50 | —Boy's, made of blued Steel Wire, with leather side pads, head and chin pieces | 50 |
| 25 | —Popular Mask for Boys, made of electro-blued Steel Wire, with side pads | 25 |

No. 300

No. 200 and 250.

No. 150

No. 50 and 100.

No. 25

# FIELDERS' GLOVES

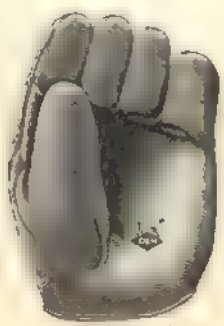
Nos. 350, 300 and 300S.

| No | | Each |
|---|---|---|
| 400 | **D. & M. Laced Heel Model.** Specially selected Drab Horsehide, web thumb, welted seams. Light padding of best asbestos felt in center of palm, medium padding in heel and fingers. Leather laced at heel for pad adjustment | $4 00 |
| 350 | **D. & M. Professional.** Very finest Drab-Colored Horsehide, lined throughout with kid, web thumb. Sewed with best linen thread, waxed, and has welted seams. Is well padded at heel and around edge of hand, extending up into little finger. Palm is lightly padded and stitched around so player may remove palm padding without disarranging rest of the pad. Designed for players who require an extra large size, lightly padded glove | 4 00 |
| 350S | **D. & M. Special.** This Glove will afford perfect protection to the hand; very soft and pliable. The last two fingers are made together, allowing an extra amount of padding around the side of the hand, forming a deep pocket. The fore and middle fingers are made separate, allowing perfect control of the thumb and fingers and much better protection than other styles. Made of finest quality Alaska-Tanned Horsehide, which closely resembles buckskin; leather lined throughout; has Calfskin web. Padded with the best asbestos padding, very soft and pliable, sewed with best waxed linen thread and has welted seams | 4 00 |
| 300S | **D. & M. Special.** Finest Chrome Calfskin, lined throughout with fine kid, web thumb, welted seams sewed with waxed linen thread. Correctly padded at heel and around edge of hand with best asbestos felt, which extends well up into little finger and forms a deep pocket | 3 50 |
| 300 | **D. & M. Special.** Finest Black French Calfskin, lined throughout with black kid, web thumb, welted seams sewed with best waxed linen thread. Well padded with best asbestos felt at heel and side of hand and up into little finger, forming a deep pocket | 3 50 |
| 250S | Best quality Drab Horsehide, lined throughout with kid, large little finger, web thumb, welted seams sewed with best linen thread, medium padded around edges, very lightly padded in center of palm | 2 75 |
| 250 | Finest Black French Calfskin, kid lined throughout, large little finger, web thumb, welted seams sewed with waxed linen thread, very lightly padded around edges and in center of palm | 2 50 |
| 200 | Genuine Horsehide, leather lined throughout, web thumb, welted seams sewed with best waxed linen thread, nicely padded on heel and sides | 2 25 |
| 200S | Good quality Drab-Colored Horsehide, leather lined throughout, large little finger, web thumb, welted seams sewed with best waxed linen thread, well padded at heel and around edges | 2 25 |
| 150 | Best quality Black Napa Tanned Leather, kid lined throughout, web thumb, welted seams sewed with best linen thread, medium pad at heel and around edges, very light pad in center of palm | 2 00 |
| 150S | Finest Indian-Tanned Napa Leather, kid lined throughout, web thumb, welted seams sewed with waxed linen thread, padded with best asbestos felt with padding extending into large little finger | 2 00 |
| 125S | Fine Black Cordovan Leather, leather lined throughout, web thumb, welted seams sewed with best waxed linen thread, well padded at heel and around edges | 1 25 |
| 125 | Extra quality Brown Napa Leather, kid lined throughout, web thumb, welted seams sewed with waxed linen thread, well padded at heel and around edges, padding extending into the large little finger | 1 25 |

No. 350S

Nos. 250 and 250S.

Nos. 300 and 300S.

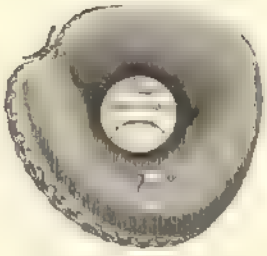


Nos. 150 and 150S.

Nos. 125 and 125S.

# CATCHERS' MITTS

## NEW LACED-UP PATTERNS



Showing New Moulded Shape of Nos. 700C, 600C and 500C.

**No. 700C**—Catchers' Mitt. Professional Moulded Shape, with Deep Pocket. Made from Finest Quality Cordovan Calfskin and Asbestos Padding, Sewed with Extra Heavy Waxed Linen, Strap and Buckle Fastening.. .....Each, $7 00

**No. 600C**—The New Style Moulded Mitt Made from Pearl-Colored Horsehide and Finished in the Best Manner Possible, Strap and Buckle Fastening.....Each, 6 00

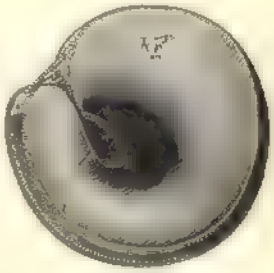
**No. 500C**—Choice Black Calfskin, in the same new style as No. 600C.....Each, 5 00

Showing Back of Nos. 700C, 600C and 500C

Nos. 400C and 300C

**No. 400C**—Cream-Colored Horsehide Palm, Back and Fingers; Carefully Shaped, Deep Pocket, Strap and Buckle Fastening.....Each, 4 00

**No. 300C**—Made from Genuine Pearl Horsehide, carefully Shaped, Deep Pocket, Strap and Buckle Fastening.. .....Each, 3 00



Nos. 250C and 200C,

**No. 250C**—Genuine Olive Green Horsehide Palm, Tan Leather Back and Fingers, with Strap and Buckle Fastening. Very strong and deservedly popular.....Each, 2 50

**No. 200C**—Large Plain Re-enforced Front Professional Shaped Mitt, Selected Black Horsehide Palm with Brown Yucatan Fingers and Back. Strap and Buckle Fastening.....Each, 2 00

Nos. 150C and 150CB

**No. 150C**—Gray Napa Goat Palm, Back and Fingers, Brown Napa Leather, Strap and Buckle Fastening...Each, 1 50

**No. 150CB**—Black Cordovan Front and Fingers, with Strap and Buckle Fastening.....Each, 1 50

Nos. 100C and 100CB.

**No. 100C**—Napa Tan Front and Back, Special Firm Padding, Strap and Buckle Fastening.....Each, 1 00

**No. 100CB**—Extra Quality, Black Leather, Moulded Pattern, with Strap and Buckle Fastening; same style and shape as No. 150CB.....Each, 1 00

No. 75C.

**No. 75C**—Napa Tan Leather, Double Stitched Front, with Laced Back, Strap and Buckle Fastening .....Each, 75

**No. 50C**—Napa Tan Leather, Man's Size, Laced Thumb, with Strap and Buckle Fastening.....Each, 50

**No. 50CB**—Boys' Size; otherwise same as No. 50C.....Each, 50

**No. 25C** Boy's Size, Napa Tan Leather throughout, Laced Thumb.....Each, 25

Nos. 50C 50CB and 25C

SEATTLE HARDWARE COMPANY

# BASEMEN'S MITTS

## NEW LACED-UP PATTERNS

**No. 350B**—Made of Finest Quality Cordovan Calfskin, Full Leather Lined, Leather Binding, Buckled Strap with Keeper, Asbestos Padding, Extra Deep Pocket....Each, $3 50

Back of
Nos. 350B, 300B and 250B

**No. 300B** Best Quality Black Calfskin Palm, Benton-Tanned Leather Back, Full Leather Lined, Leather Laced, Strap and Buckle at Wrist, Extra Deep Pocket . . . . Each 3 00

Nos. 350B, 300B and 250B

**No. 250B**—Extra Quality Black Horsehide Palm, Black Leather Back, Full Leather Lined, Felt Padding, Deep Pocket, Strap and Buckle.....Each 2 50

**No. 200B**—Pearl Horsehide Palm, Benton-Tan Back, Full Leather Lined, Laced, Strap and Buckle, Best Asbestos Pad, Formed with Deep Pocket.....Each, 2 00

**No. 150B**—Fine Quality Pearl-Colored Goat Leather, Benton-Tan Leather Back, Full Leather Lined, Leather Binding, Felt Padding, Formed with Deep Pocket, Strap and Buckle.....Each, 1 50

**No. 125B**—Good Grade Black Horsehide Palm, Black Cordovan Back, Leather Lined, Felt Padding, Formed with Deep Pocket, Laced around Sides, Strap and Buckle ....Each, 1 25

**No. 100B**—Extra Large Size, Craven-Tan Back, Asbestos Padding, Natural Deep Pocket, Laced around Sides...Each, 1 00

# FIELDERS' MITTS

## NEW LACED-UP PATTERNS

**No. 250F**—Finest Quality, Pearl-Colored Horsehide, Full Leather Lined, Asbestos Felt Padding, Leather Laced, Strap and Buckle.....Each, $2 50

Nos. 200B, 150B, 125B and 100B.

**No. 200F**—Fine Drab-Colored Horsehide Palm and Benton-Tan Leather Back and Fingers, Full Leather Lined, Felt Padding, Laced around Outside, Strap and Buckle. Each, 2 00

**No. 150F**—Pearl-Colored Goat Leather, Benton-Tan Leather Back and Fingers, Felt Padding, Laced around Outside, Strap and Buckle.....Each, 1 50

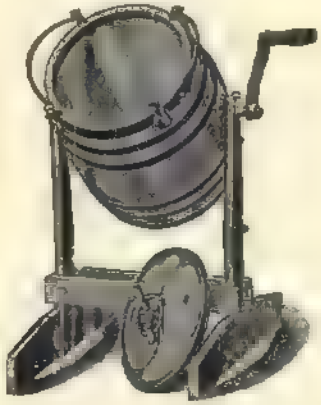
Back of Fielders Gloves

*Either of the above numbers furnished in Rights or Lefts  Will send Right Hand unless otherwise specified*

SEATTLE HARDWARE COMPANY

# CHURNS

## ACME—BARREL



Dovetailed Maple Staves, Oak Stand, Galvanized Castings, Cork-Lined Cover.

| Nos | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Capacity, Gallons | 6 | 10 | 15 | 20 | 25 | 35 |
| Churning Capacity, Gallons | 3 | 4 | 7 | 9 | 12 | 14 |
| Weight Each, lbs | 32 | 38 | 44 | 50 | 65 | 75 |
| Each | $8 00 | 9 00 | 10 00 | 11 00 | 14 00 | 16 00 |

## CYLINDER

Cedar

| Nos | 1C | 2C | 3C | 4C |
|---|---|---|---|---|
| Capacity, Gals | 2½ | 4 | 7 | 9 |
| Churning Capacity, Gals | 1½ | 3 | 4½ | 6 |
| Weight Each, lbs | 14 | 16 | 20 | 26 |
| Each | $2 50 | 3 00 | 3 50 | 4 00 |

## GLASS

Dazey Family

| Nos | 20 | 30 | 40 |
|---|---|---|---|
| Capacity, Pts | 5 | 7½ | 9 |
| Churning Capacity, Pts | 2½ | 3¾ | 4½ |
| Per Dozen | $32 50 | 38 00 | 52 00 |
| Extra Jars, Per Dozen, | 8 00 | 12 50 | 17 00 |

## MONEY DRAWERS

Wood's

No. 2 Black Walnut, front 4¼x16 in., Cover 17x18 in., Hardwood. Weight per Doz., 200 lbs. Thirty-two Combinations.....Per Dozen, $36 00

Tucker's

No. 3—Varnished Ash, front 4½x16 in., Cover 14¾x18½ in., Plain Coin Tray and Woodwork. Weight per Doz., 165 lbs..Per Doz., $24 00

ONE-HALF DOZEN IN A CRATE

# WOODEN-WARE

## BUTTER MOULDS

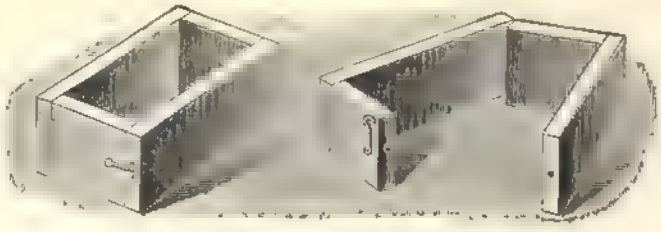
No. 1

Nos. 2 and 4

No. 14

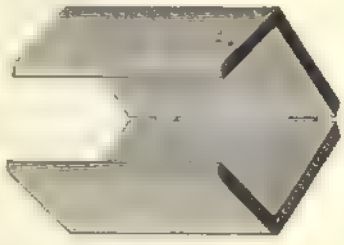
**Selected Maple, Hand Carved**

| | | | |
|---|---|---|---|
| No. 1 | —Individual, 1 oz., Round, Weight per Dozen, 2 lbs. | Per Dozen, | $1 50 |
| No. 2 | —½ lb., Round. Weight per Dozen, 12 lbs. | " | 3 00 |
| No. 4 | —1 " Round, Weight per Dozen, 18 " | " | 3 75 |
| No. 14 | —1 " Square. Weight per Dozen, 18 " | " | 6 50 |



**Pacific Square**

**Pacific Square** Moulds 1 lb. Square Brick. Weight per Dozen, 10 lbs.....Per Dozen, $6 00



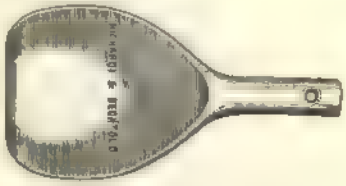
**California Square—Brass Hinges**

**1 lb.** Weight per Dozen, 15 lbs ..Per Dozen, $4 50
**2 lb.**—Weight per Dozen, 21 " " " 5 00

## BUTTER LADLES

**Acme—Maple**

**No. 1**—4¼x8 in., Weight per Dozen, 4 lbs., .....Per Dozen, $1 25

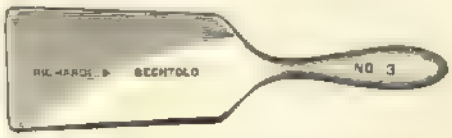


**Michigan—Maple, Paraffine Finish**

**No. 2** 4½x9½ in., Weight per Dozen, 6 lbs., .....Per Dozen, $2 00

PACKED AS WANTED

## BUTTER SPADES




**Plain—Maple, Turned Handle**

**No. 5**—4x12 in., Weight per Dozen, 4 lbs., .....Per Dozen, $2 00

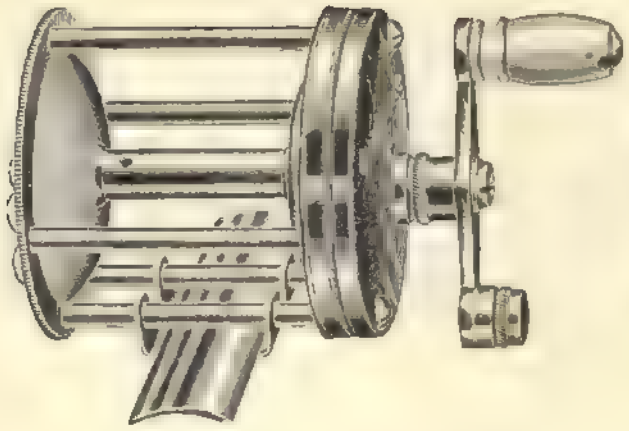
**Grooved—Maple**

**No. 10**—3¼x10 in., Weight per Dozen Pairs, 4 lbs.....Per Dozen Pairs, $3 00

PACKED AS WANTED

# FISHING REELS

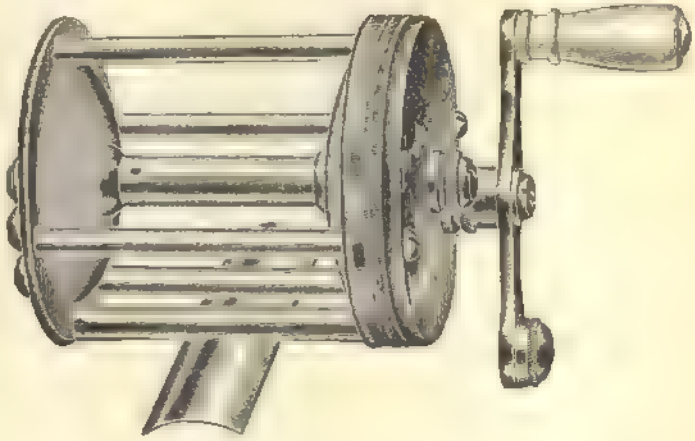
## QUADRUPLE MULTIPLYING



### Quadruple. Nickel Plated

Long Spool, Fancy White Handle, inserted Hard Metal Bushing, Adjustable Click and Drag, Oil Cup over Bearing.

| No. | Yds. | Pillar | Disc | Per Doz. |
|---|---|---|---|---|
| 4022 | 40 | 1⅝ in. | 2 in | $16 50 |
| 4032 | 60 | 1⅞ in. | 2¼ in | 19 50 |
| 4042 | 80 | 1⅞ in. | 2½ in | 22 50 |



### St. Claire—Quadruple. Nickel Plated

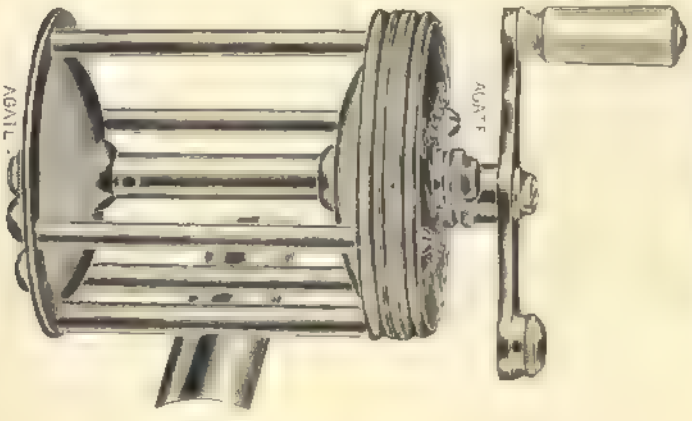
Adjustable Click and Drag, full top and bottom Pivots, Oil Cups over Bearings, Fancy Crank and White Handle.

| No. | Yds. | Pillar | Disc | Per Doz |
|---|---|---|---|---|
| 4230— | 60 | 1⅞ in. | 2 in .... | $25 00 |

### Professional—Quadruple. Satin Finish

Adjustable Click and Drag, two Metal Oil Cups over top and bottom Pivots, Fancy Crank and White Handle.

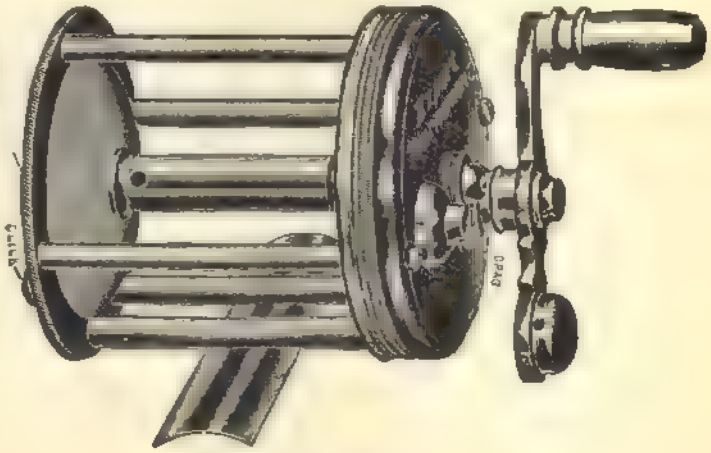
| No. | Yds. | Pillar | Disc | Per Doz |
|---|---|---|---|---|
| 4233— | 60 | 1⅞ in. | 2 in..... ..... | $33 00 |



### Quadruple Take-Down. Jeweled

Round Adjustable Back-Sliding Click, Steel Pivots, Pinion, Click Spring, Tong and Ratchet, Kentucky Pattern Cross Plate, White Handle, Nickel Plated.

| No. | Yds | Pillar | Disc | Per Doz |
|---|---|---|---|---|
| 4232— | 60 | 1⅞ in. | 2 in..... | $36 00 |



### Quadruple. German Silver, Jeweled

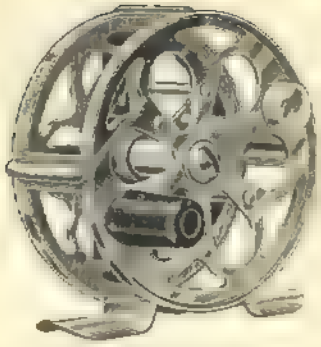
Round Wide Pattern, Adjustable Front-Sliding Drag and Back Sliding Click, Steel Pinions, Pivots and Click; Oil Cup on front and back Plate, Kentucky Pattern, Cross Plate, White Handle.

| No. | Yds. | Pillar | Disc | Per Doz. |
|---|---|---|---|---|
| 4335— | 60 | 1⅞ in. | 2 in..... .. | $60 00 |

EACH IN A BOX

# FISHING REELS

## MEISSELBACH FEATHERLIGHT



Removable Spool

Back-Sliding Double-Pointed Steel Click and Steel Spindle, Removable Spool, Brass Thumb and Reel Plate made of one piece; no screws to lose.

### Nickel-Plated Finish

| No. | Yds. | Spool | Per Doz. |
|---|---|---|---|
| 250N | 40 | 1¾x¾ in | $12 00 |
| 260N | 60 | 2¼x¾ in | 16 45 |

### Bronze Finish

| No. | Yds. | Spool | Per Doz. |
|---|---|---|---|
| 250B | 40 | 1¾x¾ in | $12 00 |
| 260B | 60 | 2¼x¾ in | 16 45 |

Removable Spool

Back-Sliding Click, Steel Spindles, Removable Spool, very light, Brass Metal.

### Nickel-Plated Finish

| No. | Yds. | Spool | Per Doz. |
|---|---|---|---|
| 270N | 70 | 2¼x¾ in | $24 00 |
| 280N | 80 | 2¼x¾ in | 24 00 |

### Bronze Finish

| No. | Yds. | Spool | Per Doz. |
|---|---|---|---|
| 270B | 70 | 2¼x¾ in | $24 00 |
| 280B | 80 | 2¼x1 in | 24 00 |

## MEISSELBACH EXPERT

Removable Spool

New Back-Sliding Steel Click, Patent Guard and Brake, allowing angler to apply a drag from the most delicate frictions to a complete stop.

Capacity 100 yds., Diam. 3 in., Width 1 in.

| No. | | Per Doz. |
|---|---|---|
| 17N | —Nickel Plated | $30 00 |
| 17B | —Bronze | 30 00 |

Capacity 60 yds., Diam. 2¼ in., Width ¾ in.

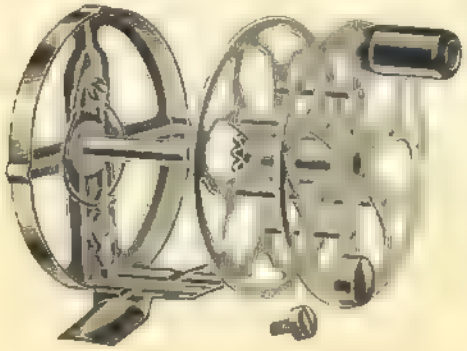
| No. | | Per Doz. |
|---|---|---|
| 19N | —Nickel Plated | $24 00 |
| 19B | —Bronze | 24 00 |

Removable Spool

Back-Sliding Steel Click and Detachable Thumb Drag, and Patent Guard and Brake, allowing the angler to apply a drag from the most delicate friction to a complete stop.

Capacity 200 yds., 12-thread Line, Diam. 3 in., Width 1⅛ in.

| No. | | Per Doz. |
|---|---|---|
| 22N | —Nickel Plated | $39 00 |
| 22G | —Gun-metal | 39 00 |



## GOOD LUCK—TROUT

Has all the high-grade material and workmanship of the Featherweight Reel. The frame projects over the spool far enough to prevent a loose line slipping over the side. The lightest reel made with a line guard.

Capacity 60 yds.

| No. | Finish | Spool | Per Doz. |
|---|---|---|---|
| 6N | —Nickel Plated | 2¼x¾ in | $12 00 |
| 6B | —Bronze | 2¼x¾ in | 12 00 |

# HORSESHOERS' TOOLS

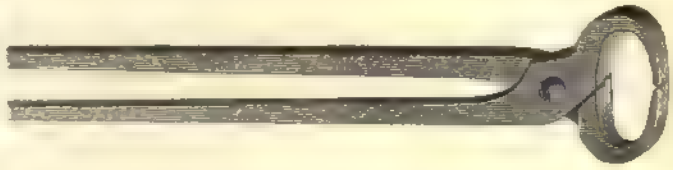
## HOOF PARERS

**Heller's**
Solid Cast Steel, Full Polished.

| No. | | Per Doz. |
|---|---|---|
| 23 | —Length 14 in., Weight per Doz. 32½ lbs | $28 80 |

ONE HALF DOZEN IN A BOX

## HOOF-CUTTING NIPPERS



**Heller's**
Solid Cast Steel, Full Polished.

| No. | Length | Weight Doz. | Per Doz. |
|---|---|---|---|
| 24A | — 12 in. | 22 lbs. | $24 00 |
| 25 | — 14 in. | 33 lbs | [illegible] |

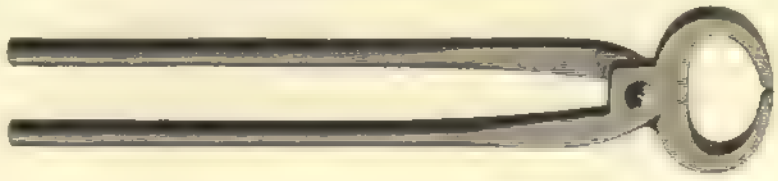
ONE-HALF DOZEN IN A BOX

**Standard**
Solid Cast Steel, Polished Jaws.

| No. | Length | Weight Doz. | Per Doz. |
|---|---|---|---|
| 32 | — 14 in. | 27 lbs. | $28 00 |

ONE-THIRD DOZEN IN A BOX

## HORSESHOEING PINCERS



| No. | | Per Doz. |
|---|---|---|
| 52 | — Length 12 in., Steel Faced Jaw, Weight Doz. 31 lbs.... | $17 00 |
| | Length 14 in., Steel Faced Jaw, Weight Doz. 36 lbs.... | 19 90 |

ONE THIRD DOZEN IN A BOX

**Heller's**

| No. | | Per Doz. |
|---|---|---|
| 21 | —Length 12 in ..... | $18 00 |

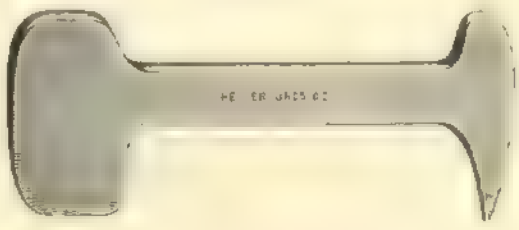
ONE HALF DOZEN IN A BOX WEIGHT DOZEN 6 LBS

**Heller's J. I. C.**

| No. | | Per Doz. |
|---|---|---|
| 20 | —Length 14 in ..... | $24 00 |

ONE QUARTER DOZEN IN A BOX WEIGHT DOZEN 43 LBS

## BUFFER



| No. | | Per Doz |
|---|---|---|
| 39 | —Heller's Buffer, 5½ to 6 in. long. | $6 00 |

ONE DOZEN IN A BOX WEIGHT, 10 LBS

# HOSE PIPES

Brass, Plain, With Screw Tip

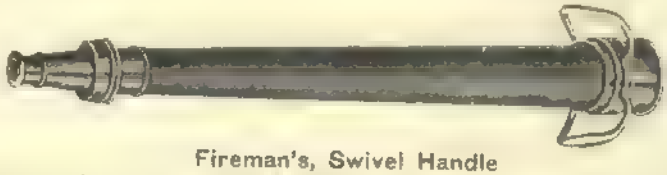
| | | | | |
|---|---|---|---|---|
| **Size Coupling, in.** | ¾ | ¾ | 1 | 1¼ |
| Length, in. | 6 | 7½ | 8 | 12 |
| Weight per Dozen, lbs. | 7 | 7 | 8 | 18 |
| Per Dozen | $7 00 | 7 00 | 8 00 | 10 00 |

| | | | |
|---|---|---|---|
| **Size,** in | 1½ | 2 | 2½ |
| Length, in | 13 | 12 | 15 |
| Weight per Dozen, lbs. | 22 | 32 | 58 |
| **Standard Hose Thread** | 25 00 | 38 00 | 75 00 |
| **Iron Pipe Thread** ...Per Doz., | $27 50 | 41 00 | |

Brass, Cock Large End

| | | | |
|---|---|---|---|
| **Size Coupling, in.** | ¾ | ¾ | 1 |
| Length, in. | 6 | 8 | 8 |
| Weight per Dozen, lbs. | 9 | 10 | 15 |
| Per Dozen | $12 00 | 13 00 | 15 00 |

| | | | |
|---|---|---|---|
| **Size Coupling, in.** | 1¼ | 1½ | 2 |
| Length, in. | 12 | 12 | 12 |
| Weight per Dozen, lbs. | 36 | 44 | 50 |
| Per Dozen | $40 00 | 55 00 | 80 00 |



Fireman's, Swivel Handle

**No. 100**—Wound and Painted, Size 2½ in., Length 30 in. Weight Each, 10 lbs. Each, $12 00

# HOSE NOZZLES

MYSTIC

The Mystic Spray Nozzle produces both spray and full stream. The Mystic does not give a shut off, therefore does not produce a pressure on the hose.

**Mystic Spray Nozzle**—¾ in., Brass. Weight per Dozen, 8 lbs. ....Per Dozen, $6 00

ONE DOZEN IN A BOX

MAGIC

**Magic**—¾ in., Brass, Spray and Full Stream. Weight per Dozen, 7 lbs. ..Per Dozen, $9 00

GEM

**Gem**—¾ in., Brass, Spray and Full Stream. Weight per Dozen, 6 lbs. Per Dozen, $5 50

**Diamond**—¾ in. Brass. Similar to Gem. Spray and Full Stream. Weight per Dozen, 6 lbs. ....Per Dozen, $6 00

**Boston**—¾ in., Brass, Spray and Full Stream. Weight per Dozen, 6 lbs. ....Per Dozen, $6 00

ONE DOZEN IN A BOX

DUO

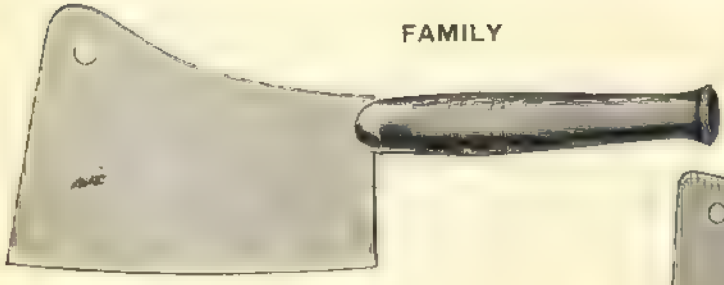
Can be used as a sprinkler or nozzle. A perfect spray or a solid stream.

**Duo**—¾ inch. Per Dozen, $3 00

# CLEAVERS

## FOSTER BROTHERS'

### FAMILY



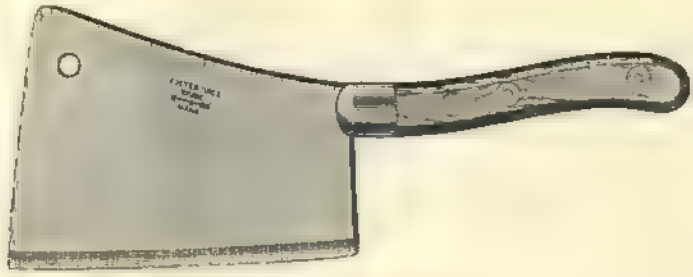
### LAMB

| Round Handle | | |
|---|---|---|
| Nos | 7 | 8 |
| Size, Nos | 0 | 1 |
| Cut, in | 7 | 8 |
| Weight per Dozen, lbs | 35 | 40 |
| Per Dozen | $6 00 | 6 50 |

| Flat Handled, Riveted | | |
|---|---|---|
| Nos | 18 | 19 |
| Size, Nos | 1 | 2 |
| Cut, in | 8 | 9 |
| Weight per Dozen, lbs | 22 | 27 |
| Per Dozen | $15 00 | 16 50 |

ONE DOZEN IN A WOODEN BOX

### MARKET



Flat Handle, Riveted

| Nos | 108 | 109 | 110 | 112 |
|---|---|---|---|---|
| Size, Nos | 1 | 2 | 3 | 5 |
| Cut, in | 8 | 9 | 10 | 12 |
| Weight per Dozen, lbs | 45 | 58 | 75 | 100 |
| Per Dozen | $19 00 | 21 00 | 23 00 | 28 00 |

ONE HALF DOZEN IN A WOODEN BOX

### BEEF SPLITTER

Iron Handle, Wrapped with Braided Sash Cord

**No. 213**—Size 6, Cut, 13 in. Weight per Dozen, 125 lbs.....Per Dozen, $39 00

PACKED AS WANTED

# STEEL GAME TRAPS

## GENUINE NEWHOUSE

### Double Spring, With Offset Jaws and Teeth

For catching Beaver, Otter, etc.

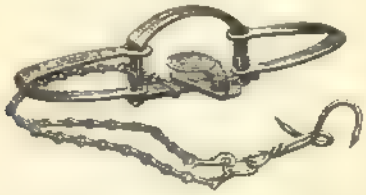
| No. | 14 |
|---|---|
| Spread of Jaws, in | 6½ |
| Length of Chain, in | 26 |
| Weight per Dozen, lbs | 40 |
| Per Dozen | $17 50 |

### Double Spring, With Teeth

For catching Wolf, Otter, Lynx, Cougar, Beaver, etc.

| No. | 48 |
|---|---|
| Spread of Jaws, in. | 6½ |
| Length of Chain, in. | 61 |
| Weight per Dozen, lb | 44 |
| Per Dozen | $18 50 |

SEVEN DOZEN IN A BARREL



### Double Spring, With Chain and Drag

For catching Large Wolf, Canadian Lynx, etc.

| No. | 4½ |
|---|---|
| Spread of Jaws, in | 8¾ |
| Length of Chain, in | 45 |
| Weight per Dozen, lbs | 92 |
| Per Dozen | $40 00 |

### Double Spring, With Teeth

For catching small Black Bear, etc.

| No. | 50 |
|---|---|
| Spread of Jaws, in | 9½ |
| Length of Chain, in | 17 |
| Weight per Dozen, lbs. | 132 |
| Per Dozen | $85 00 |

### Double Spring, With Offset Jaws and Teeth

For catching small Black Bear.

| No. | 150 |
|---|---|
| Spread of Jaws | 9½ |
| Length of Chain, in | 17 |
| Weight per Dozen, lbs | 132 |
| Per Dozen | $85 00 |

### Double Spring, With Offset Jaws and Teeth

For Catching Bear, etc

| No. | 15 | 15X |
|---|---|---|
| Spread of Jaws, in | 11¾ | 11¾ |
| Length of Chain. | 18 in | 5 ft |
| Weight per Dozen, lbs | 235 | 295 |
| Per Dozen | $120 00 | 135 00 |

### Double Spring, With Teeth

For catching Black or Brown Bear, etc.

| No. | 5 | 5X |
|---|---|---|
| Spread of Jaws, in | 11¾ | 11¾ |
| Length of Chain | 18 in. | 5 ft. |
| Weight per Dozen, lbs | 235 | 295 |
| Per Dozen | $120 00 | 135 00 |

### Double Spring, Grizzly Bear Trap

For catching the largest of Game

| No. | 6 |
|---|---|
| Spread of Jaws, in | 16 |
| Length of Chain, in | 28 |
| Weight per Dozen, lbs | 522 |
| Per Dozen | $280 00 |

### TRAP CLAMPS

| No. | 4 | 5 | 6 |
|---|---|---|---|
| For Setting | Small | Medium | Large |
| Weight per Dozen, lbs | 12 | 15 | 20 |
| Per Dozen | $2 50 | 6 00 | 10 00 |

# GAME TRAPS

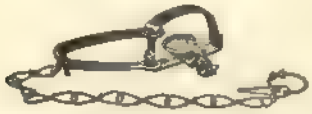
## ONEIDA JUMP

The light, compact structure of the Oneida Jump Traps enables the trapper to use them in small holes. The patent hump is used on this trap, which brings the setting device up out of the mud and prevents freezing in severe winter weather.

| No. | 0 | 1 | 1½ | 2 | 3 |
|---|---|---|---|---|---|
| Spread of Jaws, Inch | 4 | 4⅜ | 5¼ | 5¾ | 6¾ |
| Length of Chain, Inch | 16½ | 18½ | 19¼ | 20¼ | 22 |
| Weight per Dozen, lbs. | 5½ | 6 | 9½ | 14 | 22 |
| Per Dozen | $4 25 | 5 00 | 7 50 | 10 50 | 14 00 |

NO 1, 12 DOZEN IN A CASE NO 1½ 12 DOZEN IN A CASE NO 2, 20 DOZEN, AND NO 3, 13 DOZEN IN A BARREL

## VICTOR



### Single Spring With Chain

For catching Rat, Gopher, Muskrat, Mink, Skunk, etc.

| No. | 0 | 1 | 1½ |
|---|---|---|---|
| Spread of Jaw, in | 3½ | 4 | 4⅜ |
| Length of Chain, in | 16½ | 18½ | 19¼ |
| Weight per Dozen, lbs. | 5 | 7½ | 11½ |
| Per Dozen | $4 25 | 5 00 | 7 50 |

### Double Spring With Chain

For catching Fox, Coyote, Badger, Lynx, Otter, etc.

| No. | 2 | 3 | 4 |
|---|---|---|---|
| Spread of Jaws, in. | 5⅜ | 5¼ | 5⅞ |
| Length of Chain, in | 19¾ | 23 | 23 |
| Weight per Dozen, lbs. | 14 | 22 | 24 |
| Per Dozen | $10 50 | 14 00 | 16 50 |

## GENUINE NEWHOUSE

### Single Spring, With Chain

For catching Rat, Gopher, Muskrat, Mink, Skunk, etc.

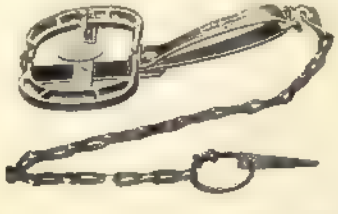
| No. | 0 | 1 | 1½ |
|---|---|---|---|
| Spread of Jaws, in. | 3½ | 4 | 4⅝ |
| Length of Chain, in | 19½ | 19½ | 22 |
| Weight per Dozen, lbs. | 7½ | 10 | 14 |
| Per Dozen | $4 25 | 5 00 | 7 50 |

### Double Spring

For catching Fox, Coyote, Badger, Lynx, Otter, Cougar.

| No. | 2 | 3 | 4 |
|---|---|---|---|
| Spread of Jaws, in | 4⅝ | 5½ | 6½ |
| Length of Chain, in | 22 | 26 | 26 |
| Weight per Dozen, lbs | 18 | 28½ | 38½ |
| Per Dozen | $10 50 | 14 00 | 16 50 |

NOS. 0 AND 1, 12 DOZEN IN A CASE, NO. 1½, 25 DOZEN NO 2, 15 DOZEN, NO. 3 10 DOZEN AND NO 4, 7 DOZEN IN A BARREL



### Newhouse, Double Jaw, Single Spring

For Skunk, Mink, Muskrat, Fox, Raccoon, etc.

| No. | 91 | 91½ |
|---|---|---|
| Spread of Jaws, in. | 5¼ | 6⅓ |
| Length of Chain, in | 19½ | 22 |
| Weight per Dozen, lbs | 10½ | 16½ |
| Per Dozen | $6 00 | 9 00 |

NO 91 39 DOZEN NO 91½ 20 DOZEN IN A BARREL

### Newhouse, "Otter Slide," With Teeth

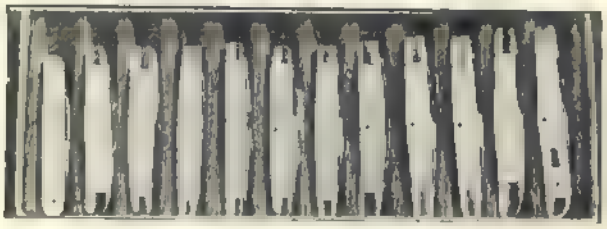
For catching Otter, Beaver, Coyote, etc.

| No. | 2½ |
|---|---|
| Spread of Jaw, in. | 5½ |
| Length of Chain, in. | 26 |
| Weight per Dozen, lbs | 26 |
| Per Dozen | $16 50 |

TWELVE DOZEN IN A BARREL

SEATTLE HARDWARE COMPANY

# POCKET KNIFE ASSORTMENTS



Cut Shows No. 50 Assortment

**No. 50** 2¼ in., 2 Blades, Pearl Handle, Ladies' Knives, One Dozen in Display Case, no two alike ..... Per Assortment, $9 00

**No. 310** 2¼ in., 2 and 3 Blades, Pearl Handle, Ladies' Knives, One Dozen in Display Case, no two alike ..... Per Assortment, 12 00

**No. 0554** —Two Blades, 3⅛ in. Engraved Metal Handles, Assorted Copper, Brass and Silver, Polished Blades, One-Half Dozen in a Display Box..... 8 00

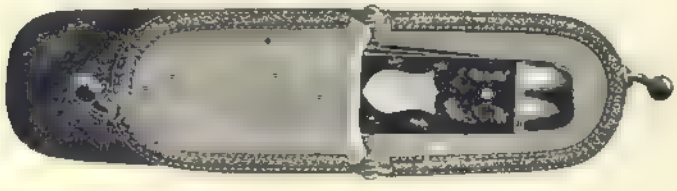
Cut Shows No. 400 Assortment

**No. 400** —3 to 3¼ in., 3 and 4 Blade, Pearl Handle, One Dozen in Display Case, no two alike..Per Assortment, $ 16 00
**No. 101**—Two Blades, 2¼ in. Assorted Colors, Composition Handles, One Dozen in a Box.....Per Assortment, $ 8 00
**No. 102** Two Blades, 3½ in. Shell Handles, One Dozen in in a Display Box.. " 10 00



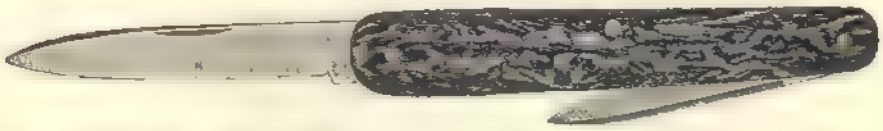
# KNIFE PURSES

## LEATHER

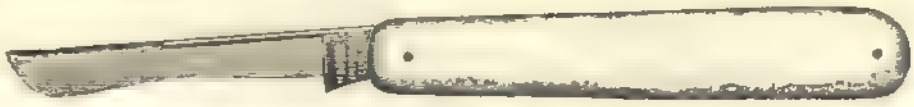


| Length, in.... | 3 | 3½ | 4 | 4½ |
|---|---|---|---|---|
| Per Dozen ..... | $1 00 | 1 00 | 1 00 | 1 00 |

# POCKET KNIVES



**No. 12426**—Two Blades, 3⅝ in. Stag Handle, Brass Lined, Spear ..... Per Dozen, $7 00



**No. 11322**—Corn Knife, One Blade, 3⅛ in. Ivory Handle, Brass Lined ..... Per Dozen, $10 00

**No. 44094**—Champagne Knife, Three Blades, Cork Screw and Cigar Cutter, 3⅛ in. German Silver Handle, Brass Lined, Sheep's Foot ..... Per Dozen, $21 00

**No. 12372**—Two Blades, 2⅛-in. Ivory Handle, Brass Lined, German Silver Tips, Spear ..... Per Dozen, $8 00
**No. 12572**—Two Blades, 2⅛-in. Shell Handle, Brass Lined, German Silver Tips, Spear ..... " 8 00

**No. 12683**—Two Blades, 2⅞-in. Pearl Handle, Lord Warncliff Pattern, Brass Lined, German Silver Bolster and Cap ..... Per Dozen, $9 00

**No. 12684**—Two Blades, 2⅞-in. Pearl Handle, Brass Lined, German Silver Bolster and Cap, Spear ..... Per Dozen, $9 00

No. 12464

**No. 12464**—Two Blades, 3¼-in. Stag Handle, Brass Lined, Polished Tips, Spear ..... Per Dozen, $6 00
**No. 2468**—Two Blades, 3¼-in. Stag Handle, Brass Lined, One Punch Blade, One Spear Point Blade, Push Button ..... Per Dozen, $18 00

FULL SIZE CUTS

ALL ABOVE ONE-HALF DOZEN IN A BOX

SEATTLE HARDWARE COMPANY

# CAST HOLLOW WARE

## Dutch Ovens

| Nos | 8 | 9 | 10 | 11 |
|---|---|---|---|---|
| Diameter Top, in. | 10 | 11 | 12½ | 13¼ |
| Capacity, quarts | 5 | 6 | 8 | 12 |
| Weight Each, lbs | 8 | 15 | 17 | 24 |
| Erie, Each | $2 25 | 2 50 | 3 20 | 3 75 |

## Regular Skillet

| Nos | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|
| Diameter Top, in | 9⅝ | 10⅜ | 11¼ | 11¾ | 13¼ |
| Diam. Bottom, in. | 8¼ | 8⅞ | 9¾ | 10¼ | 11¾ |
| Weight Each, lbs. | 3¾ | 4¼ | 4¾ | 5¼ | 7 |
| Each | $0 70 | 0 80 | 0 90 | 1 10 | 1 80 |

## Handled Griddles

| Nos | 07 | 08 | 09 |
|---|---|---|---|
| Diameter, in. | 8¼ | 9¼ | 10¼ |
| Weight, lbs | 2¾ | 3 | 4 |
| Erie, Each. | $0 60 | 0 70 | 0 90 |

## Bailed Griddles

| Nos | 12 | 14 | 16 |
|---|---|---|---|
| Diameter, in. | 11¾ | 13¾ | 15½ |
| Weight Each Net, lbs | 5 | 8 | 9½ |
| Erie, Each | $1 10 | 1 30 | 1 60 |

## Long Griddles

| Nos | 8 | 9 | 10 |
|---|---|---|---|
| Length, in | 19 | 21 | 24½ |
| Width, in | 8½ | 9⅜ | 12½ |
| Weight Each, lbs | 8¼ | 10¾ | 13½ |
| Erie, Each | $1 40 | 1 70 | 2 60 |

## Heavy Hotel Griddles

| No | | Each |
|---|---|---|
| 11 | Size. 16x24 in Weight Each, 19¼ lbs | $7 00 |

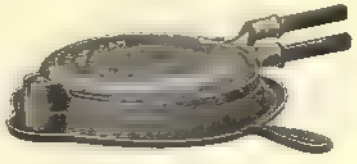
Polished Wrought Steel

| | | |
|---|---|---|
| 120 | Size, 18x26x⅜ in. Weight Each, 28 lbs. | $10 00 |

## Deep-Ring Waffle Irons

For Gas or Vapor Stoves

| No | 8D |
|---|---|
| Diameter Pan, in. | 7¾ |
| Weight Dozen, lbs | 126 |
| Per Dozen | $22 00 |



## American Waffle Irons

Japanned Rim, Wooden Handles

| Nos. | 8 | 9 |
|---|---|---|
| Diameter Pan, in. | 7¾ | 8⅝ |
| Weight Dozen, lbs. | 100 | 110 |
| Per Dozen | $18 50 | 21 00 |

SEATTLE HARDWARE COMPANY

# CAST HOLLOW WARE

### Iron Teakettles

| | |
|---|---|
| No | 8 |
| Capacity, Quarts | 6 |
| Weight, lbs | 9 |
| Erie, Each | $1 50 |

### Cast Aluminum Teakettles

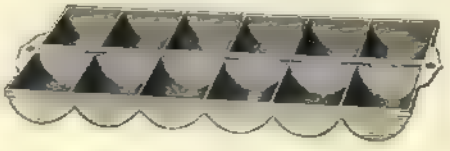
| Nos | 505 | 506 | 508 |
|---|---|---|---|
| Standard Number | 7 | 8 | 9 |
| Capacity, Quarts | 5 | 6 | 8 |
| Diameter, Bottom, in | 8½ | 9⅛ | 9⅝ |
| Weight Each, lbs | 5 | 6 | 8 |
| Each | $6 00 | 6 50 | 7 50 |

## Gem Pans

| No | Per Doz. |
|---|---|
| 1—Size 11½x7¾ in., 11 Cakes 2½x2⅝ in. Weight, Dozen, 42 lbs | $6 00 |

| No | Per Doz. |
|---|---|
| 6 Size 13x7½ in., 12 Cakes 2⅞x1⅞x½ in. Weight, Dozen, 34 lbs. | $6 00 |

| No. | Per Doz. |
|---|---|
| 10—Size 10½x7½ in., 11 Cakes 2½x1¾ in. Weight, Dozen, 58 lbs | $8 00 |



| No | Per Doz. |
|---|---|
| 11—Size 11⅝x6⅞ in. 12 Cakes 3x1⅞x1⅜ in. Weight, Dozen, 50 lbs. | $6 00 |

### Danish Cake Pan

| | |
|---|---|
| No | 9D |
| Diameter, in. | 9 |
| Weight, Each, lbs | 6 |
| Each | $1 00 |

### Flop Griddle

Three Pan, Each Cake 4 in.

| | |
|---|---|
| No. | 8F |
| Weight, Each, lbs. | 4 |
| Per Dozen | $18 00 |

# CAST HOLLOW WARE

Round Bottom Kettles

| Nos | 7 | 8 | 9 |
|---|---|---|---|
| Diameter Top, in | 9½ | 10¾ | 11⅝ |
| Capacity, Quarts | 6 | 8 | 10 |
| Weight, Each, lbs | 7 | 8½ | 10½ |
| **Erie,** Each | $1 30 | 1 70 | 2 00 |

Flat Bottom Kettles

| Nos | 07 | 08 | 09 |
|---|---|---|---|
| Diameter Top, in | 9¼ | 9⅞ | 10¾ |
| Capacity, Quarts | 6 | 7 | 9 |
| Weight, Each, lbs | 7 | 7½ | 8½ |
| **Erie,** Each | $1 40 | 1 60 | 2 00 |

Sugar Kettles

| Capacity, Gallons | 25 | 30 |
|---|---|---|
| Weight Each Net, lbs | 60 | 85 |
| **Standard,** Each | $8 00 | 10 00 |

Round Bottom Pots

| Nos | 17 | 18 | 19 |
|---|---|---|---|
| Diameter Top, in | 9⅜ | 10⅜ | 11½ |
| Capacity, Quarts | 7 | 9 | 12 |
| Weight, Each, lbs | 8 | 10 | 12 |
| **Erie,** Each | $1 70 | 1 90 | 2 20 |

Scotch Bowls

| Nos | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| Diameter Top, in | 9⅜ | 10⅜ | 11½ | 12 |
| Weight Each Net, lbs | 4¼ | 4¾ | 7 | 8 |
| Each | $1 00 | 1 10 | 1 20 | 1 30 |

Yankee Bowls

| Nos | 02 | 03 | 04 |
|---|---|---|---|
| Diameter Top, in | 9½ | 10⅜ | 10¾ |
| Capacity, Quarts | 4 | 6 | 7 |
| Weight, Each, lbs | 6 | 7 | 7¾ |
| **Erie,** Each | $1 20 | 1 40 | 1 60 |

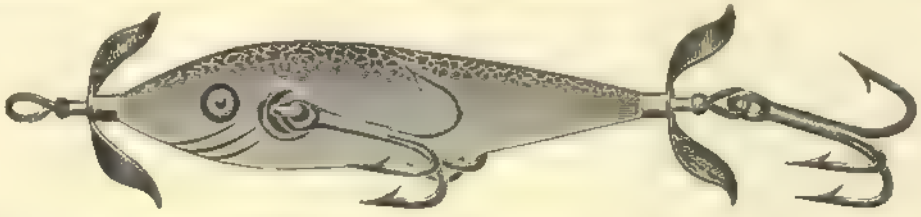
# CASTING AND TROLLING BAITS

## HEDDON'S DOWAGIAC MINNOWS

Fitted with two Spinners and three extra strong Heddon Designed Nickel Plated Treble Hooks Length of Body, 2¾ inches.

**No. 100**—Fancy Green Back, White Belly ..Per Dozen, $9 00
**No. 101** Rainbow Colors, consisting of Green Back, Pink and Yellow Sides, White Belly " 9 00
**No. 102**—White Body, Slate-colored Back " 9 00
**No. 105**—Blended Red and Green Back, Yellow Belly " 9 00

Fitted with two Spinners, five extra-strong Heddon-Designed Nickel-Plated Hooks. Length of Body, 3¾ inches.
**No. 151** Rainbow Colors, Green Back, Pink and Yellow Sides, White Belly. ..Per Dozen, $10 20



Fitted with two Spinners, three No. 1-0 Hollow-Point Treble Hooks. Length of Body, 3¾ inches.
**No. 176**—Pure White Body, Slate-colored Back.....Per Dozen, $10 20

**No. 200**—Fitted with two Nickeled Treble Hooks, White Body, Blue Snout and Nickeled Collar Per Dozen, $10 20

## THE "KILLER" WOODEN MINNOWS

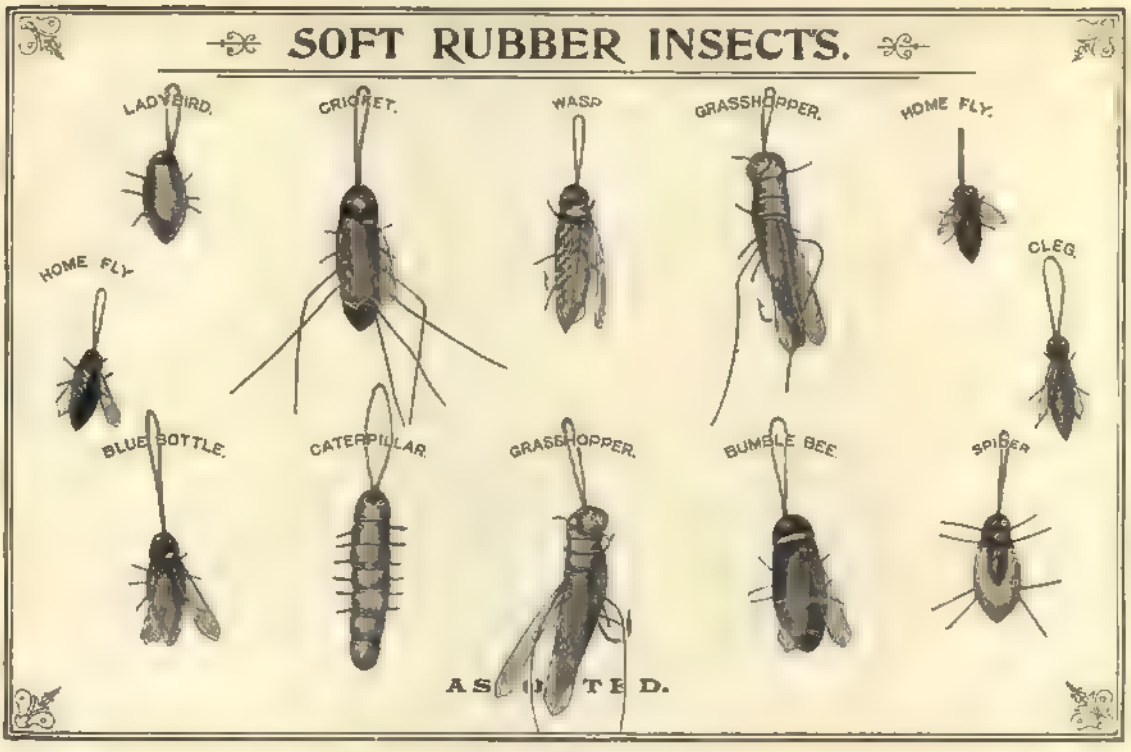
**No. 3000**—Fitted with two Spinners, three Nickeled Treble Hooks. 2¼ in. long, Fancy Green and White Belly.....Per Dozen, 6 00
**No. 5001** -Fitted with two Spinners, five Nickeled Treble Hooks, 3⅜ in. long. Same description as No. 101. " 8 00

## THE "NEVERFAIL" WOODEN MINNOWS

Fitted with two Spinners, three Nickeled Detachable Treble Hooks Length of Body, 3¼ inches.

**No. E100**—Fancy Green Back, White Belly .Per Dozen, $7 00
**No. E101**—Rainbow Colors, consisting of Green Back, Pink and Yellow Sides, White Belly. " 7 00
**No. E102** White Body, Slate-colored Back " 7 00
**No. E103**—Blended Dark Blue Back, Silver Enameled Belly.. " 7 00
**No. E105**—Blended Red and Green Back, Yellow Belly.. " 7 00
**No. E177**—Blue and Slate-colored Back, White Belly. Length of Body, 3⅛ inches two Spinners, three extra-strong Treble Hooks " 10 00

# ARTIFICIAL BAITS




**Small Insects, Soft Rubber**

**No. 0**—Assorted, on Card as shown in illustration above.....Per Card, $3 00

ONE DOZEN ON A CARD

No. 318

No. 325

No. 338

No. 341

No. 350

No 2

No. 3

**Large Insects**

**No. 318**—Grasshopper.....Per Dozen, $3 00
**No. 325**—Extra Large Grasshopper.....“ 4 00
**No. 338**—Fly Minnows.....“ 3 00
**No. 341** Spinning Fly Minnows.....“ 4 00
**No. 350**—French Stone Fly or Penniwinkle.....“ 3 00

ONE DOZEN ON A CARD

**No. 2** Froggies.....“ 3 00

ONE DOZEN IN A BOX

**No. 3**—Meadow Frog.....“ 6 00

ONE-TWELFTH DOZEN IN A BOX SIX BOXES IN A CARTON

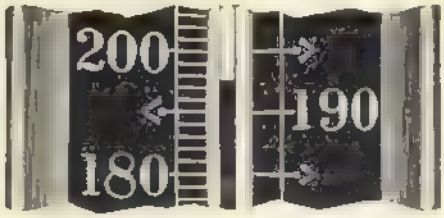
Full Size Cuts

SEATTLE HARDWARE COMPANY

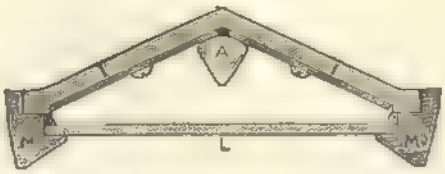
# THERMOMETERS

## PROCESS KETTLE, OR RETORT

No. 500




Full-size Section of Scale Case




End View of Scale Case

A Thermometer glass tube.
I Back "case" to which thermometer scales are attached.
L Plate glass front.
M Removable bronze cover.

No. 506

### PROCESS KETTLE THERMOMETERS

High grade temperature scale range 170 to 270° F, pressure 0 to 20 lbs. with corresponding steam pressure gauge. Gives universal satisfaction and is used by the majority of Pacific coast packers. Owing to range, can be used for oil burners, hot water boilers, feed water heaters, etc. **Heavy magnifying mercury tube, oxidized scale, silver deposited figures and graduations.**

**No. 500**—Reclining Face. 9-in. Scale; Union Connection, Threaded for ¾-in. Pipe Thread.....Each, $33 75
**No. 506** Straight Face, 9-in. Scale; Fixed Connection, Threaded for ¾-in. Pipe Thread..... " 22 50

### HOT WATER THERMOMETERS

Designed only for heating boilers and not adapted or satisfactory for industrial uses. Nickel plated iron case, brass oxidized scales. Approximate scale range 60 to 260° F. Mercury tube, common grade.

**No. 6040**—Straight Stem, 8-in. Case, 2-in. Stem, ½-in. Pipe Thread.....Per Dozen, $27 00
**No. 6042**—Angle Stem, 8-in. Case, 2-in. Stem, ½-in. Pipe Thread..... " 33 75

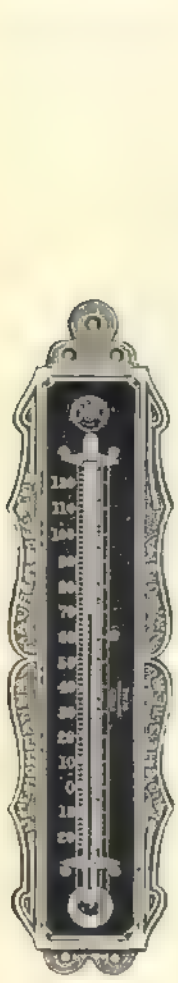
V-shape, nickel-plated iron case, oxidized brass scales, silver deposited figures. Heavy magnifying mercury tubes. Extra grade.

**No. 6044**—Straight Stem, 7-in. Case, 3¼-in. Stem, ½-in. Pipe Thread.....Each, $8 25

SEATTLE HARDWARE COMPANY

# THERMOMETERS AND HYDROMETERS

COLD-STORAGE THERMOMETER | ASPHALT-TESTING THERMOMETER | MEAT-PACKERS' HYDROMETER | SALINOMETER HYDROMETER | SALINOMETER POT



No. 1108

Nos. 1100 and 1102

No. 7372

No. 7368

No. 7458

SEATTLE HARDWARE COMPANY

## COLD-STORAGE THERMOMETERS

**No. 1108**—12 in., Galvanized Iron Case, with Heavy Mercury Tube; Approximate Range, 20° to 120°. . Each, $3 50

## ASPHALT-TESTING THERMOMETERS

All Glass, Engraved Stem, N. P. Brass Armored, for asphalt testing; glass is double thickness.

**No. 1100**—16 in., Temperature Range, 100° to 600°.....Each, $9 00
**No. 1102**—6 in., Temperature Range, 200° to 400°; for inspectors' use..... " 6 75

## MEAT-PACKERS' HYDROMETER

**No. 7372**—Salt, per cent; Scale 0 to 100°, 1° Graduations, Shot Weighted .....Per Doz., $6 00

## SALINOMETER HYDROMETER

**No. 7368**—Salinometer or Sea Water Special Scale, 0 to 5/32. Approximate Temperature, 200°.....Per Doz., $9 00

## SALINOMETER HYDROMETER POTS

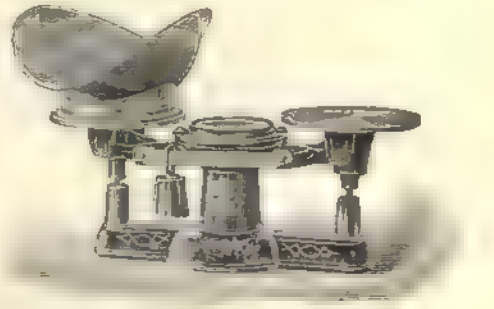
**No. 7458**—14 in., Heavy Planished Copper Pot with Wood Handle .....Each, $4 50

# SCALES

## HOWE EVEN BALANCE

Without Scoop.

**No. 434**—Capacity, ½ oz. to 2 lbs. Weight Each, 17 lbs.....Each, $5 00



With Brass Side Beam and Brass Scoop.

**No. 456** Capacity, ⅛ oz. to 6 lbs. Weight Each, 38 lbs.....Each, $8 50

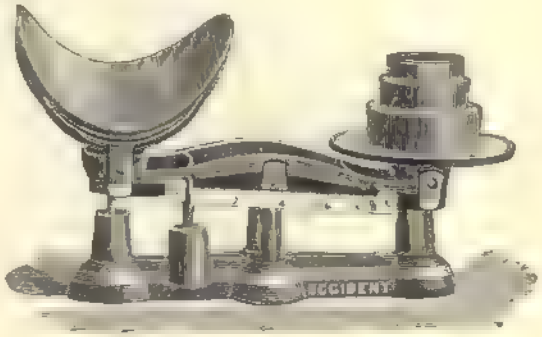
ONE IN A CASE

## EVEN BALANCE

Tea, Japanned, with Tin Scoop.

**No. 161**—Capacity, ½ oz. to 4 lbs. Weight per Dozen, 126 lbs.....Per Dozen, $15 00

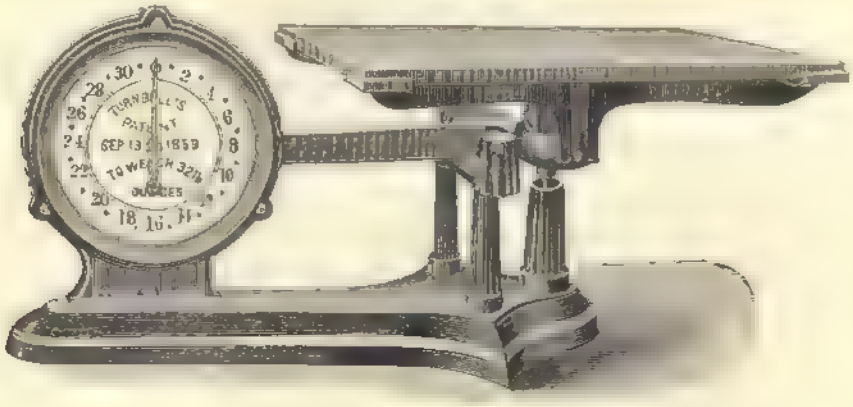
ONE-FOURTH DOZEN IN A CASE




Occident, with Side Beam and Brass Scoop

**No. 150**—Capacity, ½ oz. to 4 lbs. Weight Each, 20 lbs.....Each, $5 00

## TURNBULL'S, MARKET



No. 33

Double Dial and Marble Slab.

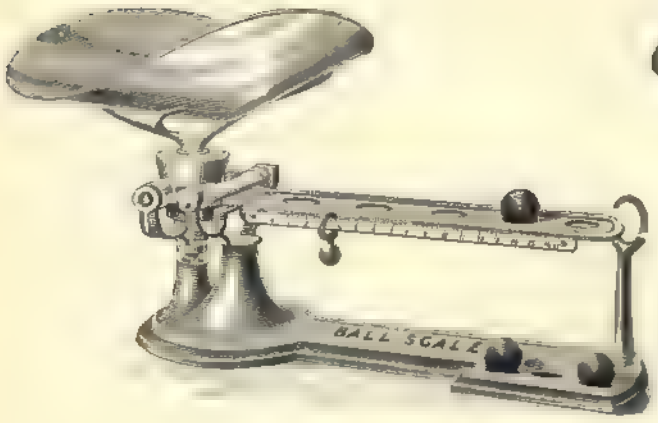
**No. 33**—Capacity, 32 lbs. by 1 oz. Weight Each, 45 lbs.....Each, $16 00
**No. 43**—Capacity, 64 lbs. by 2 oz. Weight Each, 45 lbs....." 18 00

ONE IN A CASE

SEATTLE HARDWARE COMPANY

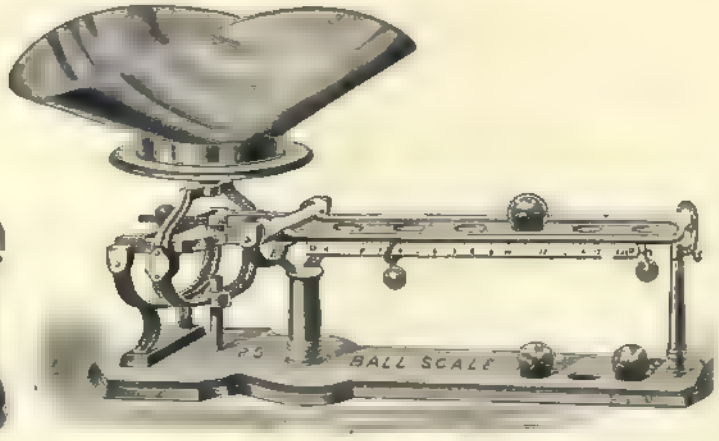
# TROEMNER'S BALL SCALES

## GROCERS'




Highly Finished in Gold Bronze and Nickel, Solid Seamless Brass Scoop 19x10½ in.

**No. 24**—Capacity, 16 lbs. by ¼ oz. Weight Each, 40 lbs.....Each, $12 00

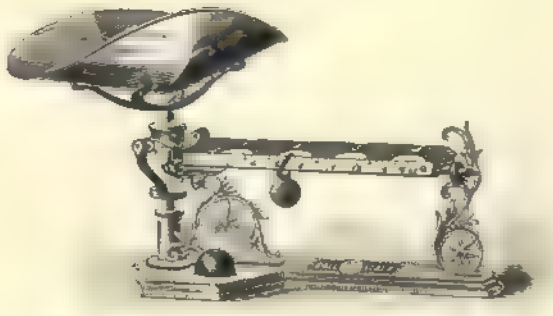



Hansomely Finished in Gold Bronze, Large Heavy Brass Seamless Scoop 21½x10½ in., which sits on a flat plate as shown in cut.

**No. 25**—Capacity, 32 lbs. by ¼ oz. Weight Each, 60 lbs.... Each, $20 00

*Scale can be used with or without Scoop, and is especially adapted for Grocers and General Stores, and for Quick, Accurate and Uniform Weighing.*

## CONFECTIONERS'

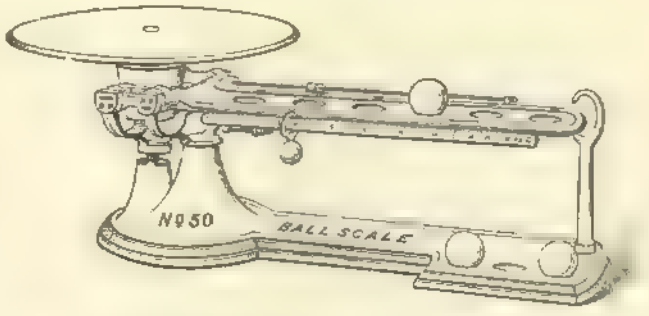


Elegant Design, Richly Ornamented, has Brass Scoop 15x8 in. Nickel Plated.

**No. 44**—Capacity, 5 lbs. by ¼ oz. Weight Each, 25 lbs.....Each, $10 00

*A handsome ornament on any counter. This Scale is especially adapted for candy, tea, spices, tobacco, etc.*

## BUTTER




Rust Proof, all the Iron Work and Round Plate is Porcelain Enameled, Bearings are of Agate.

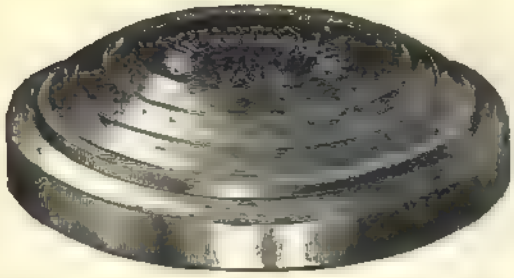
**No. 50**—Capacity, 16 lbs. by ¼ oz. Weight Each, 37 lbs.....Each, $20 00

*The beam, poises and balance weights are Silver Plated (silver being one of the few metals that is proof against salt brine.) A special sliding weight is provided to balance buckets or plates with. Balls are made of Tobin Bronze and will not rust. Entire Scale is Pure White, so as to look clean and natty on butter counter.*

ALL OF ABOVE, ONE IN A CASE.

# TARGETS

## BLUE ROCK



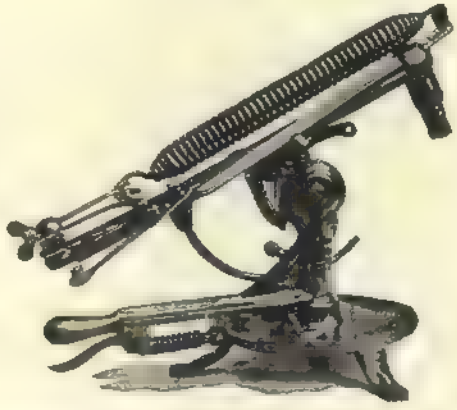
**Blue Rock**—500 in a Barrel; Weight per Barrel, 140 lbs.....Per 1000, $10 00

## PAPER GALLERY

**No. 5**—Paper Gallery Targets . Per 1000, $2 00

# TARGET TRAPS

## EXPERT



**Expert** Adjustable to all angles .. Each, $9 00
**Extra Main Springs**..... " 75

# DECOYS

## JOHNSON'S FOLDING PAPER DECOYS

**Johnson's Folding Paper Decoys**.....Per Dozen, $4 00

PACKED ONE DOZEN IN A HEAVY MANILA ENVELOPE
ASSORTED HALF MALE AND HALF FEMALE.
Weight Per Dozen Complete 4½ Lbs

The Decoy is printed on a heavy grade of jute cardboard, a very tough stock put through a water proofing process which makes it impossible to absorb moisture This is made to float by inserting a quarter inch spruce board, which is dyed water color and is also water proof The Decoy is made to retain its upright position in the water by a pendulum weight weighing about an ounce which is attached to the float by means of a ten-inch stiff wire. A string and anchor is attached to one float in each carton as a suggestion.

## WOOD

Mallard, Teal, Widgeon and Canvas-Back

**No. 1** —White Cedar, Kiln Dried, Painted Eye.....Per Dozen, $ 6 00
**No. 2** —White Cedar, Kiln Dried Attractively Painted, Glass Eye..... " 9 00
**No. 1C** "Challenge," Solid, White Cedar Kiln Dried, Glass Eye, Perfect Coloring .. " 12 00
**No. 1P** "Premier," White Cedar, Flat Bottom, Hollow, Perfect Coloring, Glass Eye, Finest Wood Decoys made .....Per Dozen, 15 00
**No. 1PB**—"Premier," Brant, otherwise same as No. 1P ..... " 15 00

# ANCHORS

Kedge—Wrought, Black

| Weight, lbs | 10 | 12 | 15 | 18 | 20 |
|---|---|---|---|---|---|
| Each | $2 15 | 2 35 | 2 60 | 2 85 | 3 00 |
| 25 to 1200 lbs | | | | | Per lb., $0 10 |

CARRIED IN STOCK UP TO 1300 LBS

Providence—Stockless, Galvanized

| Weight, lbs | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | 125 | 150 | 175 | 200 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Each | $2 00 | 2 75 | 3 50 | 4 25 | 5 10 | 6 20 | 7 30 | 8 50 | 11 00 | 13 50 | 16 75 | 20 25 | 23 50 | 27 00 |

Admiral—Stockless, Black

| | | | |
|---|---|---|---|
| 100 to 299 lbs | Per 100 lbs., $11 75 | 1000 to 3999 lbs | Per 100 lbs., $9 50 |
| 300 to 599 lbs | " " 11 00 | 4000 to 6999 lbs | " " 9 25 |
| 600 to 999 lbs | " " 9 75 | 7000 lbs | " " 9 00 |

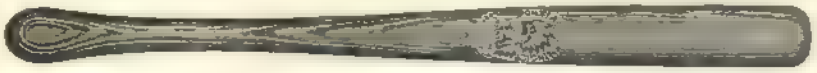
CARRIED IN STOCK UP TO 2500 LBS. BALANCE UP TO 7000 LBS FROM FACTORY

# BASEBALL BATS

## PONTIAC BATS

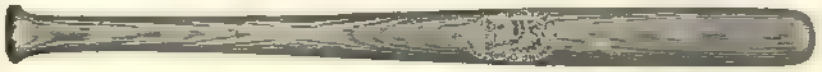
The material used in the construction of PONTIAC BATS is the best obtainable second-growth White Ash All sticks are carefully selected and are seasoned under cover, insuring the best possible condition of the timber They are treated to a thorough soaking in linseed oil, which when dried gives a hard finish. PONTIAC BATS are not painted or varnished to cover defects and the purchaser is absolutely certain of securing a perfect article.

**Assorted Lengths from 30 to 36 in., Weight 36 to 42 oz. each.**



**No. 100BB**—Many players desire a balanced bat with the weight evenly distributed It is a great batting and safe-hit bat and is endorsed by leading professional players.....Each, $1 25

**No. 100PC** PONTIAC CHIEF Well balanced and a heavy hitter .....Each, $1 00



**No. 75**—Stained Green above an Ebony Handle.....Each, $0 75

**No. 75B** Flame Burnt Finish, Highly Polished.....Each, $0 75

## OCCIDENT

**No. 3**—A strictly high grade League Bat, made from best quality Second Growth Ash, Natural Wood, Highly Polished and Waxed, assorted lengths.....Each, $1 00

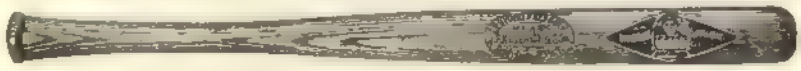
**No. 4** Perfectly Balanced League Bat, Flame Burnt, otherwise same as No 3, assorted lengths .....Each, $1 00
**No. 7**—A Good Ash Bat, Flame Burnt Finish, Highly Polished, assorted lengths ..... " 75

# BASEBALL BATS

## LOUISVILLE SLUGGER

**No. 125 Oil Tempered** Made from the choicest select Second Growth Ash, oil tempered, highly finished, assorted lengths. Weights 35 to 46 ounces ..... Each, $1 50

EACH IN A PAPER BAG, THREE DOZ IN A CRATE ASSORTED MODELS. WEIGHT 110 LBS



Made from the choicest selected Second-Growth Ash, straight grain, hand turned, with photo trademark of leading players.

| | | |
|---|---|---|
| **40TC Ty Cobb Model** - Flame-Burnt, Highly Polished Surface. . . . . | Each, | $1 25 |
| **40W —Hans Wagner Model**—Golden Mottled Finish ..... | " | 1 25 |
| **40FB—Frank "Goodnight" Baker Model**—Golden Mottled Finish ..... | " | 1 25 |
| **40EC—Eddie Collins Model**—Golden Mottled Finish ..... | " | 1 25 |
| **40D —Harry Davis Model** ..... | " | 1 25 |
| **40JJ —Joe Jackson Model** ..... | " | 1 25 |

EACH IN A PAPER BAG, THREE DOZ IN A CASE, ASSORTED LENGTHS. WEIGHT 110 LBS

**No. 17—Professional League**—Oil Tempered, Flame-Burnt Finish. ... Each, $1 00

**No. 21—Special League** Best quality Second Growth Ash, Wax Polished Finished . Each, $1 25

EACH IN A PAPER BAG THREE DOZ IN A CASE ASSORTED LENGTHS WEIGHT 110 LBS

**No. 50—Good Grade of White Ash, man's full size** ..... Each, $0 50

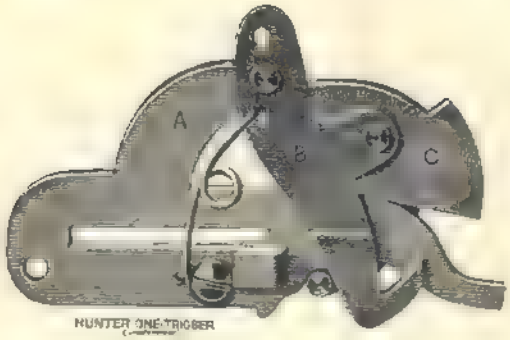
**No. 25—Boy's Professional, Good Grade Ash** ..... Each, $0 25

**No. 15—Boy's Varnished Bat, Hardwood** ..... Each, $0 15
**No. 10—Boy's Hardwood Bat, Sanded Finish** . . . . . " 10

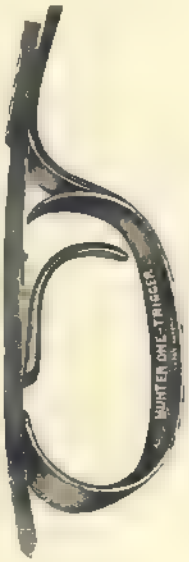
SEATTLE HARDWARE COMPANY

# SHOTGUNS

## L. C. SMITH. HAMMERLESS




Mechanism Detached, Twice Actual Size




*One trigger attached to tang and guard. Independent of recoil. You can shoot right and left, left and right, all right or all left.*

*Comprises three parts only; not frictional; never doubles; don't hang when pulling second barrel, and positively does not balk.*

### No. 3 Grade

Fine grade Damascus barrels, selected English walnut stock, checkered and engraved

**No. 123E**—12 Gauge, 30-in. Barrels, with Automatic Ejector ..... Each, $122 50
**No. 163E**—16 Gauge, 28-in. Barrels, with Automatic Ejector ..... " 122 50

### No. 3 Grade

**No. 0123E**—12 Gauge, 30-in. Barrels, with Automatic Ejector and Hunter One Trigger ..... Each, $147 50

### Pigeon Grade

**No. 12PE** 12 Gauge, 30-in. Barrels, with Automatic Ejector ..... Each, $147 50

### Pigeon Grade

**No. 012PE**—12 Gauge, 30-in Barrels, with Automatic Ejector and Hunter One-Trigger ..... Each, $172 50

## L. C. SMITH. HAMMER GUN

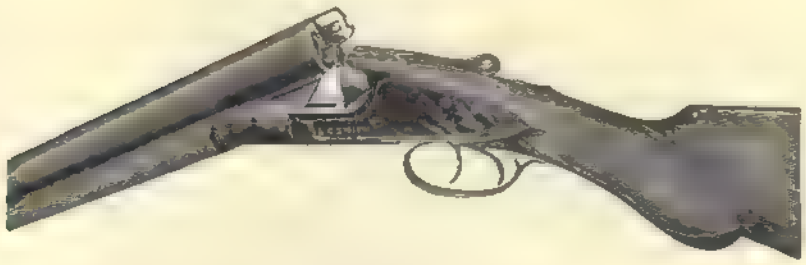
### F Grade

Royal steel barrels, imported English walnut stock, nicely checkered, pistol grip.

**No. 125**—12 Gauge, 30-in. Barrels ..... Each, $20 00

# SHOTGUNS

## L. C. SMITH, HAMMERLESS



### Field Grade

New armor steel barrels, full choked, English walnut stock, pistol grip, checkered

| | | |
|---|---|---|
| **No. 1200SH**—12 Gauge, 30-in. Barrels | Each, | $37 00 |
| **No. 1600SH**—16 Gauge, 28-in. Barrels | " | 37 00 |
| **No. 2000SH**—20 Gauge, 28-in. Barrels | " | 37 00 |
| **No. 1200E**—12 Gauge, 30-in. Barrels, with Automatic Ejector | " | 47 00 |
| **No. 1600E**—16 Gauge, 28-in. Barrels, with Automatic Ejector | " | 47 00 |
| **No. 2000E**—20 Gauge, 28-in. Barrels, with Automatic Ejector | " | 47 00 |

### Ideal Grade

Damascus barrels, full choked, English walnut stock, fine-line engraving.

| | | |
|---|---|---|
| **No. 120SH**—12 Gauge, 30-in. Barrels | Each, | $50 00 |
| **No. 160SH**—16 Gauge, 28-in. Barrels | " | 50 00 |
| **No. 200SH**—20 Gauge, 28-in. Barrels | " | 50 00 |
| **No. 120E**—12 Gauge, 28-in. Barrels, with Automatic Ejector | " | 65 00 |
| **No. 160E**—16 Gauge, 28-in. Barrels, with Automatic Ejector | " | 65 00 |
| **No. 200E**—20 Gauge, 28-in. Barrels, with Automatic Ejector | " | 65 00 |

### No. I Grade

Damascus steel barrels, English walnut stock, checkered and engraved.

| | | |
|---|---|---|
| **No. 121SH**—12 Gauge, 30-in. Barrels | Each, | $67 50 |
| **No. 161SH**—16 Gauge, 28-in. Barrels | " | 67 50 |
| **No. 161E**—16 Gauge, 28-in. Barrels, with Automatic Ejector | " | 80 00 |

### Specialty Grade

Crown steel barrels, English walnut stock, checkered and engraved, nicely finished, pistol grip.

**No. 162E**—16 Gauge, 28 in. Barrels, with Automatic Ejector . . . . . Each, $102 50

SEATTLE HARDWARE COMPANY

# RIFLES

## MANNLICHER (HAENEL)

### Sporting Model

**No. 3153** Caliber 8 M M or 315, 26 in. Round Barrel, Plain Pistol Grip, with Metal Magazine, Capacity 5 Cartridges ..... Each, $30 00

**No. 03152**—Caliber 8 M M or 315, 26 in. Octagon Barrel, Matted Rib, Sling Swivel, Hair Trigger, Checkered Pistol Grip, with Metal Magazine, Capacity 5 Cartridges ..... Each, 35 00

Weight, 7 lbs.

*Point-blank range, 300 yards; muzzle velocity, 2000 feet per second; penetration, 50 in. of pine.*

### Model No. 1, Sporting

**No. 13151**—Caliber 8 M M or 315, 26 in. Half Octagon Barrel, Raised Matted Rib, Sling Swivels, Hair Trigger, Checkered Pistol Grip, Double Reversible Front Sight, with Metal Magazine, Capacity 5 Cartridges ..... Each, $45 00

Weight, 7 lbs.

*Point-blank range, 300 yards; muzzle velocity, 2000 feet per second; penetration, 50 in. of pine.*

### Carbine

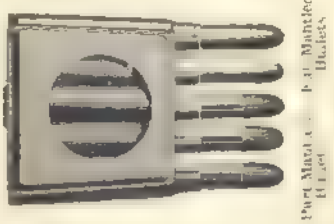
**No. 3152C** Caliber 8 M-M or 315, 18 in. Round Barrel, Sling Swivel, Range 3000 yards, with Metal Magazine, Capacity 5 Cartridges ..... Each, $30 00

Weight, 7 lbs.

## MAGAZINE CASE

Cartridges are made with full nickeled mantled bullets for target use or defense and partly mantled for use on game. They are loaded with Wallrodt Smokeless Powder

40 grains weight of bullet 236 grains



Part Mantled Bullets

Full Mantled Bullets

| | |
|---|---|
| Range | 4500 yds. |
| Killing range | 300 yds |
| Point-blank range | 300 yds |
| Velocity at muzzle | 2,000 feet per second |
| Penetration of full mantled bullet | 50 inches of pine |

The magazine case drops out automatically when emptied by discharge of the last cartridge and the weapon is then ready for reloading

The Mannlicher Rifles are same as those used exclusively by the German and Austrian armies and differ only in being sporting finish. This (the Bolt Breech) system is recognized by all military experts as being the only safe action for use with nitro powders. For large game target practice or defensive purposes these arms have no equal, requiring no elevation up to 300 yards

The immense velocity causes the leaden point of the part mantled bullet to spread upon impact with the game, making a wound equal in diameter to that of a .45 caliber

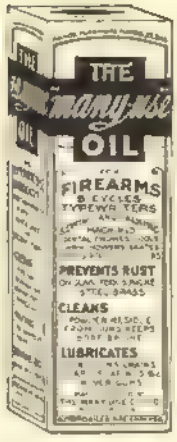
By a simple locking device these arms are made perfectly safe from accidental discharge. They are strong, very simple in construction and beautifully finished, can readily be taken apart and reassembled in a few minutes, the several parts being accurately made to gauge so as to be interchangeable. Full instructions with each

315 Caliber (or 8 M-M) Cartridges, including one Clip with every 5 Cartridges ..... Per 100, $6 00

SEATTLE HARDWARE COMPANY

# GUN OIL

## MANY-USE



| | | |
|---|---|---|
| **Many-Use** 2 oz. Bottles | Per Dozen, | $1 60 |
| **Many-Use** 6 oz. Bottles | " | 3 00 |
| **Many-Use** 3 oz. Ball-Bearing Spout Can | " | 4 00 |
| **Many-Use** 2-oz Cans, Reversible Spouts | " | 1 60 |
| **Many-Use** 4 oz Cans, Reversible Spouts | " | 3 00 |

ONE DOZEN IN A BOX

"THREE IN ONE" NYOIL WINCHESTER NITRO-SOLVENT

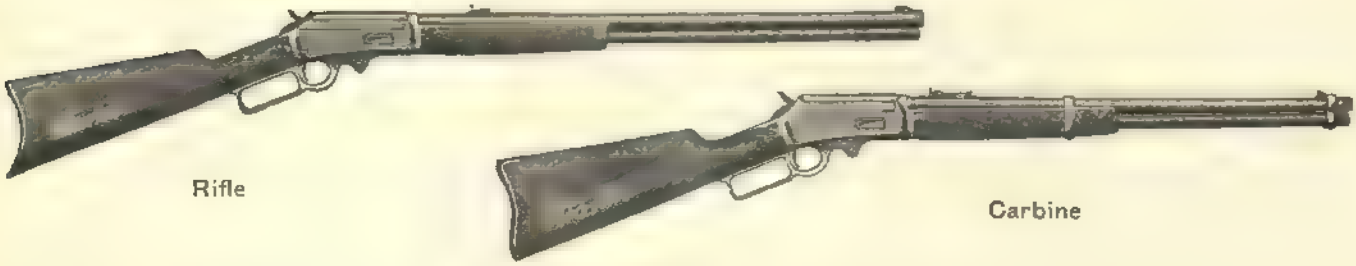
| | | |
|---|---|---|
| **"Three in One"**—Small Bottles. Weight per Doz., 4½ lbs.. 2 Doz. in a Box | Per Dozen, | $1 20 |
| **"Three in One"**—Large Bottles. Weight per Doz., 9 lbs 1 Doz. in a Box | " | 3 00 |
| **"Three in One"**—In Handy Cans. Weight per Doz., 8 lbs.; 1 Doz. in a Box | " | 4 00 |
| **Nyoil**—Small Bottles. Weight per Doz., 4 lbs.; 1 Doz. in a Package | " | 1 20 |
| **Nyoil**—Large Bottles. Weight per Doz., 9 lbs.; 1 Doz. in a Package | " | 3 00 |
| **Winchester**—Crystal Cleaner; 1 Doz. in a Box | " | 3 00 |
| **Winchester**—Red W 1906 Cleaning Solution; 1 Doz. in a Box. | " | 4 00 |
| **Winchester**—Red W Gun Oil; 1 Doz. in a Box | " | 1 20 |
| **Nitro-Solvent**—Marble's—2-oz. Bottles. Weight per Doz., 10 lbs.; 1 Doz. in a Box. | " | 3 00 |
| **Nitro-Solvent**—Hoppe's—2-oz. Bottles. Weight per Doz., 10 lbs.; 1 Doz. in a Box. | " | 4 00 |

## SEWING MACHINE OIL

| | | |
|---|---|---|
| **Occident**—2-oz. Bottles | Per Dozen, | $1 20 |
| **Occident**—3-oz. Bottles | " | 1 80 |

# RIFLES

## MARLIN MODEL 1893. REPEATING



Rifle

Carbine

### RIFLES—Solid Frame, Full Magazine, 10 Shots

**No. 2593M** 25-36 Caliber, 26-in. Round Barrel ..Each, $16 50
**No. 3093M** —30-30 Caliber, 26-in. Round Barrel " 16 50

### RIFLES—Take-Down, Straight Stock, Full Magazine, 10 Shots

**No. 2593MTD**—25-36 Caliber, 26-in. Round Barrel ..Each, $20 50
**No. 3093MTD**—30-30 Caliber, 26-in. Round Barrel " 20 50
Weight, about 7½ lbs.

**No. 02593MTD**—25-36 Caliber, 26-in. Octagon Barrel " 21 00
Weight, about 7 lbs.

### CARBINES—Solid Frame, Full Magazine, 7 Shots

**No. 2593MC** 25-36 Caliber, 20-in. Round Barrel....Each, $15 50
**No. 3093MC** 30-30 Caliber, 20-in. Round Barrel " 15 50

## MARLIN MODEL 1894. REPEATING

### RIFLES Solid Frame, Straight Stock, Full Magazine, 14 Shots

**No. 2594M** 25-20 Caliber, 24-in. Round Barrel....Each, $13 35
**No. 3294M** 32-20 Caliber, 24-in. Round Barrel " 13 35
Weight about 6¾ lbs.

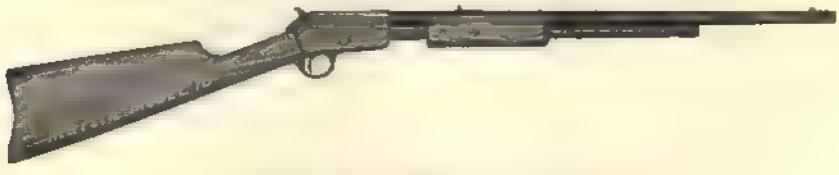
## MARBLE'S GAME-GETTER GUNS

Double barrel Upper barrel is 22 caliber, rifled, lower barrel 44 caliber, smooth bored Drop forged blued steel frame, single trigger, rubber grip, nickel plated stock.

**No. B12**—12 in. Barrels, Lock Leaf Sight, Gold Bead Sight and Holster. Wt. 4¼ lbs ....Each, $15 00
**No. A12** 12 in Barrels, Flexible Rear Sight, Lock Leaf Sight, Gold Bead Sight and Holster Wt. 4¼ lbs. " 18 00
**No. A15** 15 in Barrels, otherwise same as No. A12 " 19 00
**No. A18**—18 in Barrels; otherwise same as No A12 " 20 00

# RIFLES

## MARLIN MODEL 18. REPEATING



Take-Down, Half Magazine, 15 Shots

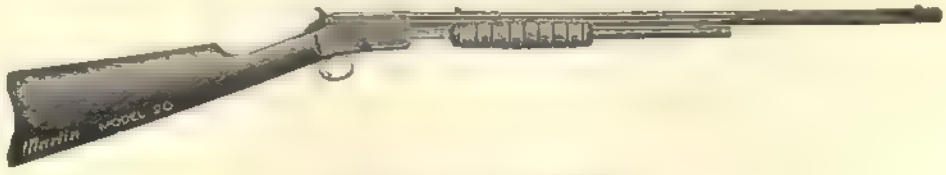
**No. 2218MTD** 22 Caliber, Short Rim Fire, 20 in Round Barrel . . . . . Each, $12 50
**No. 02218MTD**—22 Caliber, Short Rim Fire, 20 " Octagon Barrel . . . . . " 13 00

Weight, about 5¾ lbs.

## MARLIN—MODEL 29. TAKE-DOWN

**No. 2229MTD**—22 Caliber, 23 in Round Barrel Handles without change or adjustment the 22 Short, 22 Long and 22 Long Rifle Cartridge. . . . . Each, $10 00

## MARLIN MODEL 20. REPEATING




Take-Down, Half Magazine

**No. 02220MTD**—22 Caliber, 22 in. Octagon Barrel, Walnut Stock and Fore-arm. . . . . Each, $13 00

Weight 4¾ lbs.

*The above rifle will shoot either 22 short, 22 long and 22 long rifle cartridges, capacity, 15 short, 12 long and 11 long rifle.*

## MARLIN—MODEL 27. TAKE-DOWN

Special smokeless steel barrel, blued frame, steel rifle butt plate, black walnut stock and fore end, Rocky Mountain adjustable rear sight and ivory bead front sight.

**No. 02527MTD**—25-20 Caliber, 24 in. Octagon Barrel . . . . . Each, $16 00
**No. 03227MTD**—32 20 Caliber, 24-in. Octagon Barrel. . . . . " 16 00

SEATTLE HARDWARE COMPANY

# PISTOLS AND CARBINES

## THE NEW "LUGER" RAPID-FIRE AUTOMATIC REPEATING

**Luger Automatic Pistol**

**No. 30L**—30 Caliber (7.65 M M), Blued Finish, Walnut Stock, 4$^{3}/_{4}$ in. Barrel, Length over all 9 in., 8 Shots. Wt. 29 oz. ..... Each, $27 50

**Extra**—Magazines Complete ..... " 3 00

*The Luger Automatic Pistol is capable of firing over 100 shots per minute. Magazines are interchangeable and easily thrown out and inserted. Capacity of magazine 8 cartridges, thus giving the operator 8 shots without interruption, which can be fired in less than five seconds, without changing the magazine when there is one cartridge already in the barrel. Its construction makes it absolutely safe against accidental discharge. Using a 30 caliber cartridge it has a velocity of 1300 feet per second, thus giving the bullet greater striking effect than a 45 caliber, used in the ordinary pistol.*

**Luger Sporting Carbine**

**No. 30LC** 30 Caliber (7.65 M M) Similar in construction and action to the Luger Pistol. It is a Repeater, shooting 8 shots and automatically reloading after each shot as long as the cartridges remain. Length of Barrel 11$^{3}/_{4}$ in., Length over all 29 in. Wt. 4 lbs. 1 oz. ..... Each, $35 00

## MAUSER SELF-LOADING COMBINATION PISTOL AND CARBINE

**No. 30M**—30 Caliber Mauser, Combination Pistol and Carbine, 5$^{1}/_{2}$-in Barrel ..... Each, $35 00

Weight of Pistol only 2¾ lbs; complete with case 3¾ lbs.

*The whole operation of extracting the exploded cartridges, the cocking of the hammer, the reloading and closing of the action of the arm is done automatically, not by the force of any part of the gases generated by the powder, but mechanically by the recoil.*

*The barrel of this arm rests and slides on a track, and the recoil of the fired cartridge, being utilized to automatically perform the functions of discharging the empty shell and reloading the weapon, is hardly felt.*

*This arm, although in the shape of either Carbine or Pistol, is as accurate as a rifle with a much greater range than most rifles in use. It has a very low trajectory and is sighted up to 500 and 1000 yards.*

***As an offensive or defensive weapon it has no equal, it being the most approved of all similar automatic arms.***

***All parts of the arm are strong and simple and not liable to break or get out of order.***

# PISTOLS

## AUTOMATIC

### Colt Pocket Model, 25 Caliber

Six shot, rimless smokeless cartridge, full blued, 2-in barrel; full length 4½ in. Weight 13 oz.

**No. 025P** —Rubber Stocks ..... Each, $12 00
**No. 025PP**—Pearl Stocks ..... " 18 50

### Colt Pocket Model, 32 and .380 Caliber

Rimless smokeless cartridge, full blued, 3¾-in. barrel; full length 6⅜ in. Weight 23 oz

**No. 032 P** —8 Shot, Rubber Stock ..... Each, $15 00
**No. 0380P** —7 Shot, Rubber Stock. ..... " 17 50

### Colt Pocket Model, 38 Caliber

Seven shot, rimless smokeless cartridge, full blued, 4½-in. barrel; full length 7½ in. Weight 32 oz.

**No. 038P** —Rubber Stock. ..... Each, $20 00

### Colt Military Model, 38 Caliber

Eight shot, rimless smokeless cartridge, full blued, 6-in. barrel; full length 9 in.

**No. 038M**—Rubber Stock ..... Each, $21 00

### Colt Government Model, 45 Caliber

Seven shot, rimless smokeless cartridge, full blued, 5-in. barrel; full length, 8½ in. Weight 39 oz.

**No. 045G** Rubber Stock ..... Each, $22 00

### Savage Automatic

Ten Shots, Blued Finish, Rubber Stock.

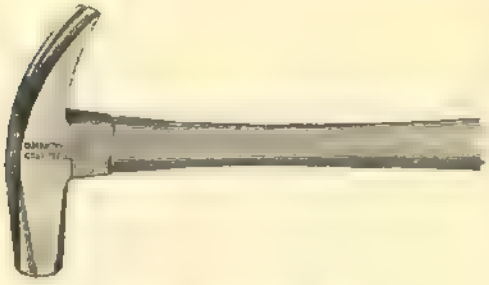
**No. 032S**—6½ in. over all, 4-in. Barrel. Wt. 19 oz.
Use .32 Rimless Cartridges ..... Each, $15 00
**No. 038OS**—7 in. over all, 4¼-in. Barrel. Wt. 21 oz.
Use .380 Rimless Cartridges ..... Each, 16 00
**Extra**—Clips or Magazines ..... " 50

## EXTRA MAGAZINES FOR COLT AUTOMATIC PISTOLS

**25** Caliber Magazine ..... Each, $0 50
**32** Caliber Magazine ..... " 65
**38** Caliber Magazine(Pocket or Military) .. Each, $0 85
**380** Caliber Magazine ..... " 75
**45** Caliber Magazine ..... " 1 00

SEATTLE HARDWARE COMPANY

# FARRIERS' HAMMERS

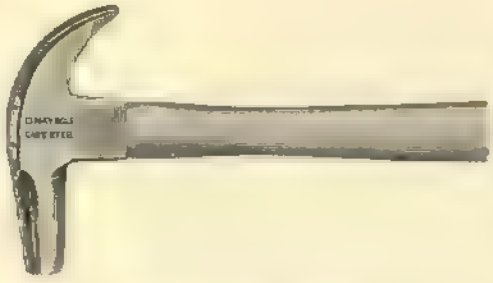


### Occident, Boston Pattern

Adze Eye, Solid Crucible Cast Steel.

| No. | | Per Doz. |
|---|---|---|
| 1152 | Weight, without Handle, 12 oz | $9 00 |

ONE HALF DOZEN IN A BOX  WEIGHT DOZEN, 14½ LBS



### Occident, Round Pattern

Adze Eye, Solid Crucible Cast Steel.

| No. | | Per Doz. |
|---|---|---|
| 1253 | Weight, without Handle, 7 oz | $7 50 |

ONE-HALF DOZEN IN A BOX  WEIGHT DOZEN 10½ LBS

### Maydole's Boston Pattern

Adze Eye, Crucible Cast Steel.

| No. | | Per Doz. |
|---|---|---|
| 152 | Weight, without Handle, 10 oz | $8 00 |

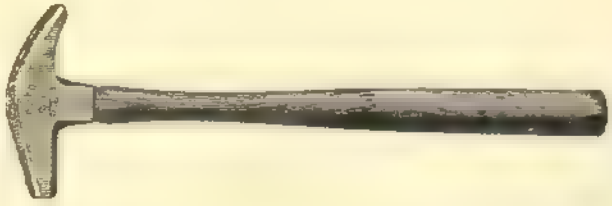
ONE-HALF DOZEN IN A BOX  WEIGHT DOZEN, 14 LBS

### Maydole's Round Pattern

Adze Eye, Crucible Cast Steel,

| No. | | Per Doz. |
|---|---|---|
| 253 | Weight, without Handle, 8 oz | $7 00 |

ONE-HALF DOZEN IN A BOX.  WEIGHT DOZEN, 11 LBS

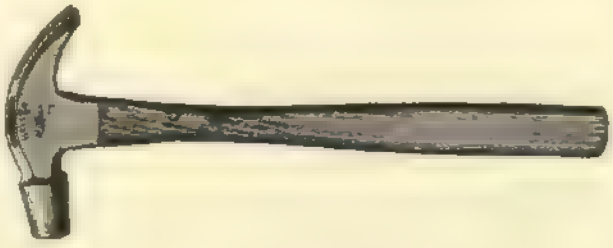


### Heller's Driving, Boston Pattern

Adze Eye, Solid Cast Steel.

| No. | | Per Doz. |
|---|---|---|
| 64H | Weights 11 to 20 oz | $12 00 |

ONE-HALF DOZEN IN A BOX  AVERAGE WEIGHT DOZEN 17 LBS  WEIGHTS INCLUDE HANDLES



### Heller's Pattern Driving

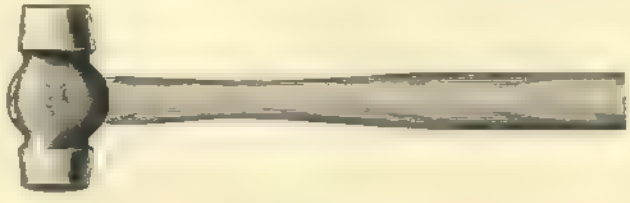
Adze Eye, Solid Cast Steel.

| No. | | Per Doz. |
|---|---|---|
| 65H | Weights 11 to 20 oz. | $15 00 |

### Heller's Turning or Cat's Head

Solid Cast Steel.

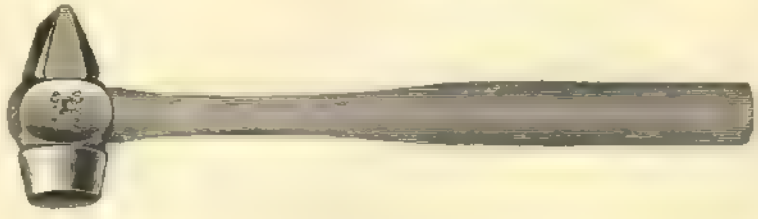
| No. | | Per Doz. |
|---|---|---|
| 60H | Weight 2 to 3 lbs | $28 80 |



### Heller's Rounding

Solid Cast Steel.

| No. | | Per Doz. |
|---|---|---|
| 61H | Weights 2 to 3 lbs | $28 80 |



### Heller's Fitting

Solid Cast Steel.

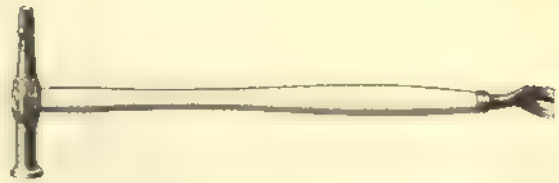
| No. | | Per Doz. |
|---|---|---|
| 62H | Weights 2, 2½ and 3 lbs | $24 00 |

ONE HALF DOZEN IN A BOX  AVERAGE WEIGHT DOZEN 45 LBS  HELLER'S HAMMER WEIGHTS INCLUDE HANDLE

# TACK HAMMERS

No. 15—Maple Handle, Polished, with Claw. .... Per Doz. $1 25

ONE DOZEN IN A BOX WEIGHT 5 LBS

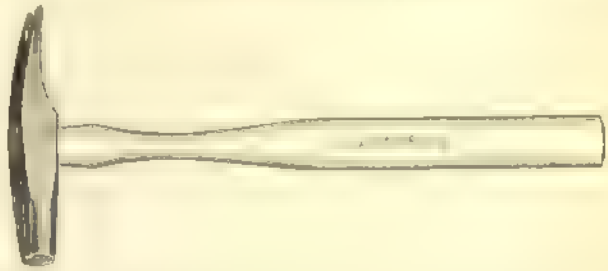


No. 19 Magnetic Head, Japanned, Hickory Handle with Claw . Per Doz $2 25

ONE DOZEN IN A BOX WEIGHT 7 LBS

No. 4—Patent Improved, Malleable Iron, Hardened Face, Inlaid with Black Walnut..... Per Doz. $3 50

ONE DOZEN IN A BOX. WEIGHT 7 LBS



No. 271—Magnetic, Cast Steel Head, Extra Polished, Hickory Handle.... Per Doz. $6 00

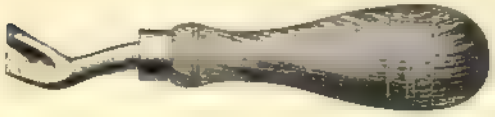
ONE HALF DOZEN IN A BOX WEIGHT DOZEN 8 1/2 LBS

## TACK PULLER

Giant—Steel Grip, Ebony Handle..... Per Doz $5 00

ONE DOZEN IN A BOX WEIGHT 3 LBS

## TACK CLAWS



No. 1—Short Shank, Heavy, Polished . Per Doz $1 25

ONE DOZEN IN A BOX WEIGHT 3 LBS

No. 46 Flat Polished-Steel Blade, Riveted Tang, Black Handle . Per Doz $2 15

ONE DOZEN IN A BOX WEIGHT 2 3 LBS

# CARPET STRETCHERS

No 5

No. 5—Japanned, Polished Blade..... Per Doz $2 85

ONE DOZEN IN A BOX WEIGHT, 7 LBS

No. 10—Socket, Solid Cast Steel . Per Doz $5 50

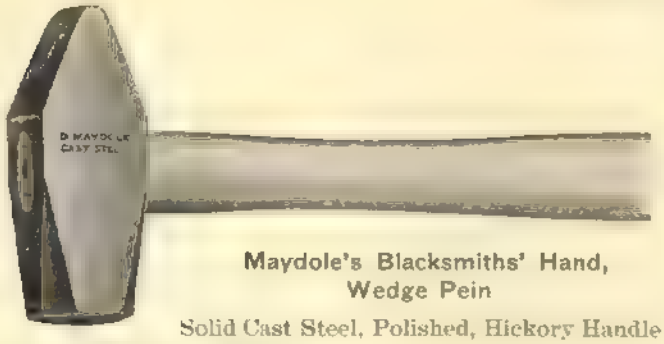
ONE DOZEN IN A BOX WEIGHT 8 1/2 LBS

No 10

SEATTLE HARDWARE COMPANY

# HAMMERS

## BLACKSMITHS' HAND

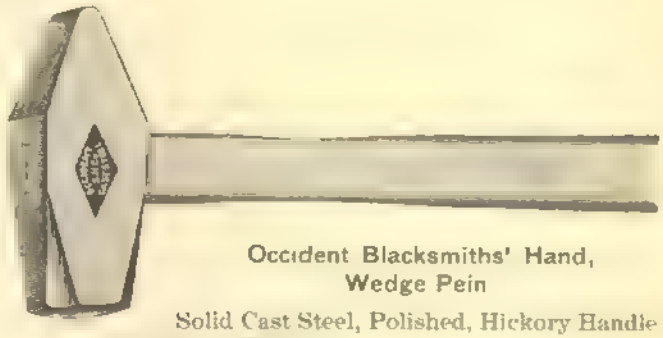


Maydole's Blacksmiths' Hand, Wedge Pein

Solid Cast Steel, Polished, Hickory Handle

| No. | Weight Each Not Inc. Hdle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 61 | —3 lbs. | 52 lbs. | $15 00 |
| 62 | —2 lbs. 10 oz. | 44 lbs. | 14 00 |

ONE THIRD DOZEN IN A BOX

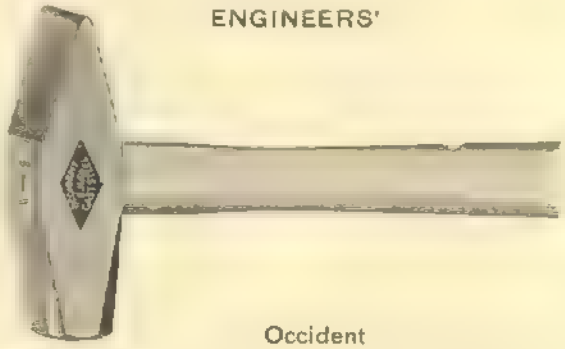


Occident Blacksmiths' Hand, Wedge Pein

Solid Cast Steel, Polished, Hickory Handle

| No. | Weight Each Not Inc. Hdle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 161 | —3 lbs. | 52 lbs. | $15 00 |
| 162 | 2 lbs. 10 oz. | 44 lbs. | 14 00 |

## ENGINEERS'



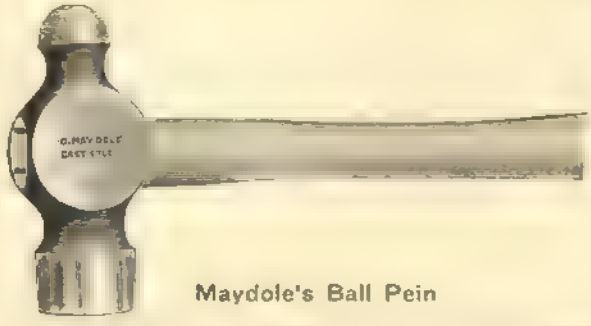
Occident

Riveting Pein, Solid Crucible Cast Steel, Hickory Handles.

| No. | Weight Each Not Inc. Hdle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 191 | -2 lbs. | 36 lbs | $14 50 |
| 192 | —1 lbs. 10 oz. | 30 lbs | 13 50 |

ONE THIRD DOZEN IN A BOX

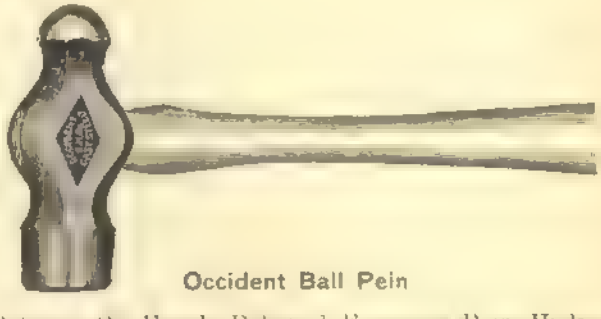
## MACHINISTS'



Maydole's Ball Pein

Round, Oil Finish, Polished Face and Pein, Hickory Handles.

| No. | Weight Each Not Inc. Hdle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 770 | 3 lbs | 52 lbs | $17 50 |
| 770½ | 2¾ lbs | 43 lbs | 14 75 |
| 771 | 2⅝ lbs | 46 lbs | 15 00 |
| 772 | 2½ lbs | 42 lbs | 14 50 |
| 773 | —1¼ lbs | 26 lbs | 10 50 |
| 774 | 1 lb | 22 lbs | 9 50 |
| 775 | 13 oz | 18 lbs | 9 00 |
| 776 | 10 oz | 15 lbs | 8 50 |
| 777 | 7 oz. | 10 lbs. | 8 00 |
| 778 | — 5 oz. | 7 lbs. | 7 75 |
| 779½ | — 2 oz. | 3½ lbs. | 7 50 |



Occident Ball Pein

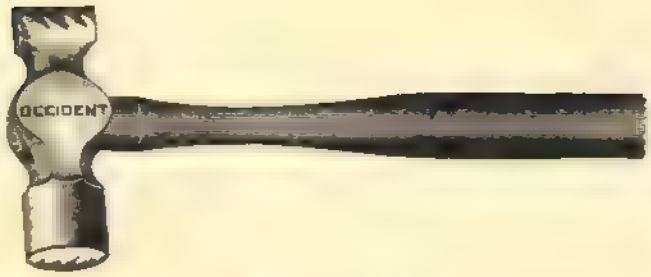
Octagon, Oil Finish, Polished Face and Pein Hickory Handles.

| No. | Weight Each Not Inc. Hdle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 170 | —3 lbs. | 54 lbs | $23 50 |
| 170½ | —2¾ lbs | 46 lbs | 20 00 |
| 171 | —1¾ lbs | 34 lbs | 18 00 |
| 172 | 1 ½ lbs | 32 lbs | 16 25 |
| 173 | 1 ¼ lbs | 26 lbs | 15 00 |
| 174 | —1 lb. | 22 lbs. | 14 00 |
| 175 | —12 oz. | 19 lbs. | 13 25 |
| 176 | — 8 oz. | 11 lbs. | 12 50 |
| 177 | — 6 oz. | 8 lbs. | 12 00 |
| 178 | —4½ oz. | 6 lbs. | 11 50 |

ONE THIRD DOZEN IN A BOX

# HAMMERS

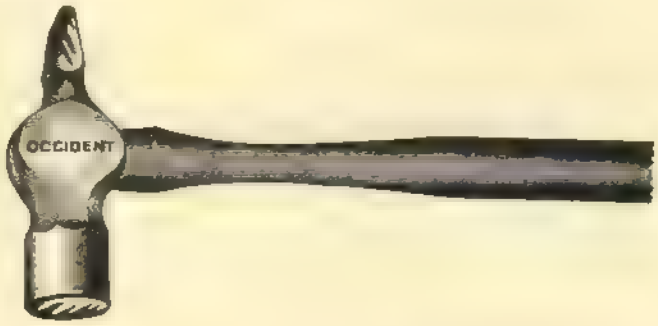
## OCCIDENT MACHINISTS'




### Straight Pein

Octagon, Polished Face and Pein, Crucible Cast Steel, Hickory Handles.

| No | Weight Each Not Inc Hdle | Weight Doz Handled | Per Doz |
|---|---|---|---|
| **1101** | 1 lb. 4 oz. | 25 lbs. | $13 50 |
| **1102** | 1 lb. | 25 lbs. | 12 50 |
| **1103**— | 12 oz. | 21 lbs. | 12 00 |



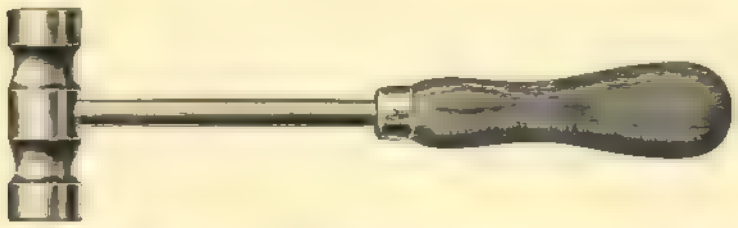

### Cross Pein

Octagon, Polished Face and Pein, Crucible Cast Steel, Hickory Handles.

| No. | Weight Each Not Inc Hdle | Weight Doz Handled | Per Doz. |
|---|---|---|---|
| **1324**—1 lb. 4 oz. | | 28 lbs. | $13 50 |
| **1325**—1 lb. | | 25 lbs. | 12 50 |
| **1326**— | 12 oz. | 21 lbs. | 12 00 |

ONE THIRD DOZEN IN A BOX

## BRASS



Polished Brass Head, Steel Shank, Hardwood Handles except No. 91, which has Knurled Handle.

| No | 91 | 92 | 93 | 94 |
|---|---|---|---|---|
| Weight, oz | 2 | 4 | 8 | 16 |
| Full Length, in | 5 | 7 | 7½ | 9 |
| Each | $0 50 | 0 75 | 1 00 | 1 75 |

## COPPER

For driving out pins, rivets, etc. For finished work and for striking a heavy blow without marring or disfiguring finished surfaces

| No | | Per Pound |
|---|---|---|
| **100** | Weights 2, 2½, 3, 3½ and 4 lbs | $0 70 |

## COLVIN'S RAWHIDE MACHINISTS'

Cut Shows Hammer Taken Apart

### Rawhide Face, with Detachable Head

For machinists, electrical and metal workers and all trades that use hand punches, dies, etc

| No | 1 | 3 | 4 |
|---|---|---|---|
| Size of Head, inch | 1¼ | 1⅝ | 2 |
| Weight each, lbs | 1¾ | 1¾ | 3 |
| Each | $1 80 | 2 30 | 3 30 |

# PICKS

## DRIFTING

### Langley Drifting

Soft Steel Body, Steel Points.

| No. | Weight Ea. | Per Doz. |
|---|---|---|
| 44 | 5 lbs. | $16 00 |
| 45 | 5½ lbs. | 17 00 |
| 46 | 6 lbs. | 18 00 |
| 47 | 6½ lbs. | $19 00 |
| 48 | 7 lbs. | 20 00 |

TWO DOZEN IN A CASE AVERAGE WEIGHT CASE 150 LBS

## POLL PICKS

Soft Steel Eyes, Extra Cast Steel Points

| No. | Weight Ea. | Weight Doz. | Per Doz. |
|---|---|---|---|
| 50 | 3 lbs. | 36 lbs. | $15 00 |
| 51 | 3½ lbs. | 42 lbs. | 15 00 |
| 52 | 4 lbs. | 48 lbs. | 16 00 |

TWO DOZEN IN A CASE AVERAGE WEIGHT 100 LBS

## PROSPECTING PICKS

Solid Cast Steel, Oil Finish, Handled

| No. | Weight, not Inc. Handle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 883 | 1 lb. | 22 lbs. | $15 00 |
| 882 | 1 lb. 8 oz. | 28 lbs. | 16 00 |

ONE HALF DOZEN IN A BOX

# CROWBARS

### Wedge Point Bars

| No. | | Per Pound |
|---|---|---|
| 2 | Solid Steel, Forged Hardened Points, Oil Finish, Weights 12 to 25 lbs. | $0 12 |

### Lining Bars

| No. | | Per Pound |
|---|---|---|
| 22 | Solid Steel, Forged Hardened Points, Oil Finish, Weights 12 to 25 lbs. | $0 12 |

### Claw Bars

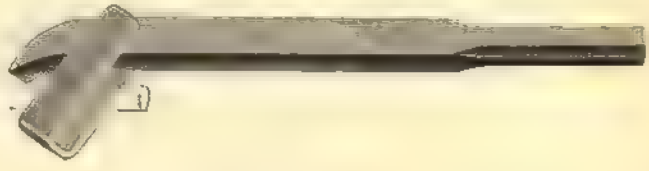
| No. | | Per Pound |
|---|---|---|
| 40 | Solid Steel, Forged, Hardened Claw, Oil Finish, Weight about 28 lbs. | $0 22 |

### Pinch Point Bars

| No. | | Per Pound |
|---|---|---|
| 21 | Solid Steel Forged, Hardened Points, Oil Finish, Weights 12 to 25 lbs. | $0 12 |

### Railroad Tamping Bars

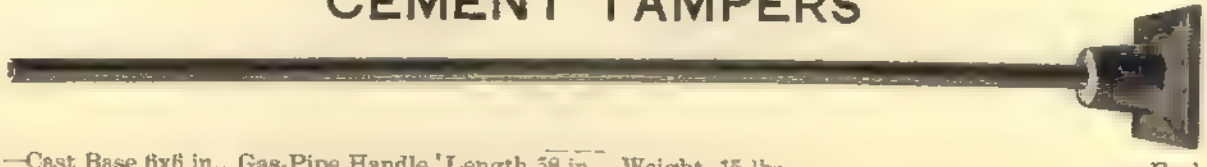
| No. | | Per Pound |
|---|---|---|
| 30 | Solid Steel Forged, Hardened Temper, Oil Finish, Weights 10 and 12 lbs. | $0 16 |



### Shackle Bars

| No. | | Each |
|---|---|---|
| 50 | Solid Steel, Forged, 1½ in. in the square, Length 5 ft. 10 in., Weight about 24 lbs. | $6 00 |

# CEMENT TAMPERS



**No. 31**—Cast Base 6x6 in., Gas-Pipe Handle, Length 58 in. Weight, 15 lbs. . . . . Each, $3 00
**No. 32**—Cast Base 8x8 in., Gas-Pipe Handle, Length 58 in. Weight, 20 lbs. . . . . " 3 50

SEATTLE HARDWARE COMPANY

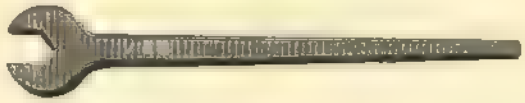
# RAILROAD TRACK TOOLS

## RAILROAD TONGS

Solid Cast Steel, Oil Finish

Per Pair, Weight 18 lbs..... $5 00

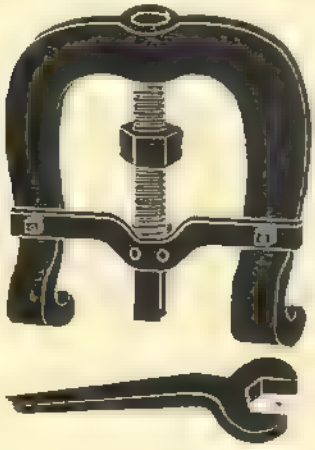
## TRACK WRENCHES



Solid Cast Steel, Oil Finish, Length 24 in.

| No. | Opening | Each |
|---|---|---|
| 125 | 1¼ in. | $2 00 |
| 150 | 1½ in. | 2 00 |
| 163 | 1⅝ in. | 2 00 |

## RAIL BENDER OR JIM CROW



Forged Steel Frame, Machine Steel Screws

| No. | Bends Rail up to | Weight Each | Each |
|---|---|---|---|
| 1 | 100 lbs. | 215 lbs. | $45 00 |
| 2 | 75 lbs. | 187 lbs. | 38 00 |
| 3 | 56 lbs. | 102 lbs. | 25 00 |
| 4 | 30 lbs. | 70 lbs. | 20 00 |
| 5 | 20 lbs | 50 lbs | 16 00 |

## TRACK DRILL

Beland

Wrought Steel Frame with Cast Steel and Malleable Iron Ratchet.

| No. | | Each |
|---|---|---|
| 63 | Complete with Two Drill Points, Weight 28 lbs | $12 00 |
| Extra Drill Points | | Per Doz., 8 00 |

## TRACK CHISEL

Cold Cutting, Solid Cast Steel, Oil Finish.

| No. | | Per Pound |
|---|---|---|
| 20 | Weights 4, 4½ and 5 lbs | $0 60 |

## HUNTINGTON TRACK GAUGE

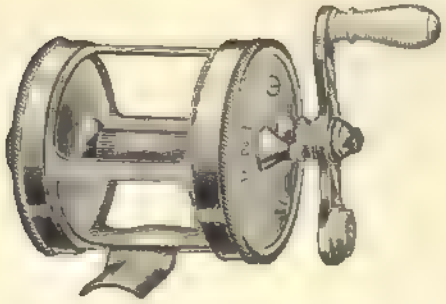
Iron Pipe Stem, Malleable Iron Heads.

| No. | | Each |
|---|---|---|
| 1 | Weight 12 lbs. | $5 00 |

## TRACK LEVEL

| No. | | Each |
|---|---|---|
| 100 | Wood Bar, Iron Shod, Spirit Level Glass in Side, Weight 10 lbs | $5 00 |

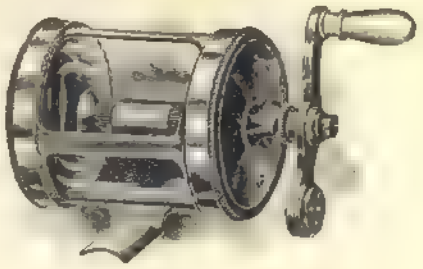
# FISHING REELS



### Meisselbach's Tripart

Quadruple Multiplying, Nickel Plated, Frame drawn from one piece of plate brass; German Silver Spool; easily in three parts, and can be easily taken apart. Steel Pivots and Gears

| No. | Yds. | Diam. Disc | Per Doz. |
|---|---|---|---|
| **5-80**—Solid Spool, | 80 | 1⅝ in | $55 00 |
| **5-81**—Free Spool, | 80 | 1¾ in | 85 00 |

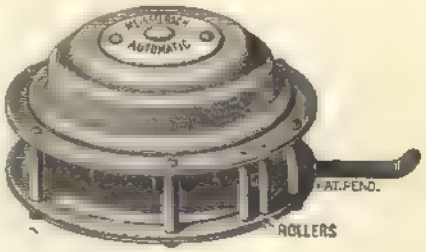


### Meisselbach's Takapart

Quadruple Multiplying, Nickel-Plated Brass Tubular Frame, German Silver Spool; can be taken apart without the aid of tools; Steel Pivots and Gears; a high-grade reel in every respect.

| No. | Yds. | Spool | Per Doz. |
|---|---|---|---|
| **4-81**—Free Spool, | 100 | 1¾x1⅝ in | $100 00 |

## AUTOMATIC




### Meisselbach's Automatic

All working parts are enclosed and are of hard Brass and Steel, working in German Silver Bearings; all in an Aluminum Case

**Each**—100 yds., Spool ¾x3 in ..... $5 00

### Martin's Automatic

Aluminum, with Lock Brake Attachment, Spool 2¾ in. Diameter, Hub ⅜ in.

| No. | | Each |
|---|---|---|
| **1 MA** | Creek Whipper. Capacity 25 yds. Line | |
| **2 MA** | Fly Casting. Capacity 50 yds. Line | $5 00 |
| **3 MA**—Bass, Capacity 80 yds. Line | | 7 00 |

### Y. & E. Automatic

Aluminum, with Tool Steel Bearings.

#### Combination Automatic

| No. | Each |
|---|---|
| **A**—Carries 125 ft. and rewinds 50 ft. | $7 00 |
| **B**—Carries 300 ft. and rewinds 90 ft. | 8 00 |
| **C**—Carries 600 ft. and rewinds 150 ft. | 9 00 |

#### Old Style

| No. | Each |
|---|---|
| **1**—Carries and rewinds 90 ft. No. 5 Silk Line | $5 00 |
| **2**—Carries and rewinds 150 ft. No. 5 Silk Line | 6 00 |

SEATTLE HARDWARE COMPANY

# MILBURN PORTABLE ACETYLENE LIGHTS

**ESPECIALLY ADAPTED FOR**

**CONTRACTORS, RAILWAYS, TUNNELS, MINES, QUARRIES, STEAM SHOVELS, DREDGES, ETC.**

No. 3-X

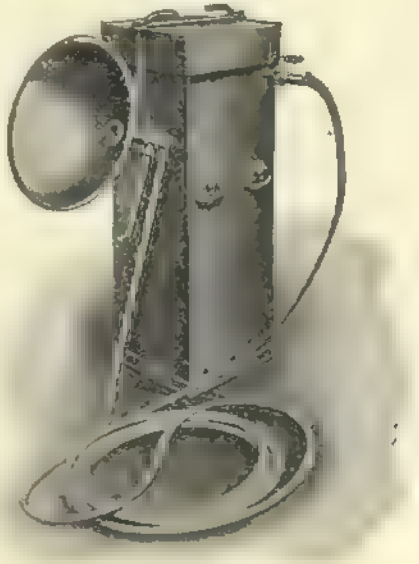
**No. 3-X** 5,000 to 12,000 candle power, lights 1,500 feet. Size, 12 x 36 in.; total height, 6 ft., weight empty, 90 lbs.; weight packed, 121 lbs.; cylinder charge, 16 lbs. Costs 4 to 6 cents per hour. Complete with extra cylinder.....Each, $ 83 00

**No. 2**—3,000 candle power, lights 1,000 feet. Size, 10 x 30 in.; total height, 5 ft.; weight empty, 50 lbs.; weight packed, 75 lbs.; cylinder charge, 9 lbs. Costs 3 to 5 cents per hour. Complete with extra cylinder.....Each, 62 00

**No. 4-Z**—12,000 candle power, lights 3,000 feet. Same as No. 3-X only with twin cylinder, two burners and reflectors. Size, 12 x 24 x 36 in.; total height, 6 ft.; weight empty, 160 lbs.; weight packed, 223 lbs.; charge of carbide, 32 lbs. Costs 8 to 12 cents per hour. Complete.....Each, 114 00

**Extra Burners**.....Each, 30

WRECKER



No. 3-W

**No. 3 W** 5,000 to 12,000 candle power, lights 1,500 feet. Size, 12 x 36 in.; weight empty, 100 lbs.; weight charged, 197 lbs.; charge of carbide, 16 lbs. Costs 4 to 6 cents per hour. Equipped with 25 feet of armored hose. This light is especially adapted for wrecking-cars, steam shovels, dredges, etc. Complete..Each, $ 98 00

**No. 4 W**—12,000 candle power, lights 1,500 feet. Size, 12 x 24 x 26 in.; two burners and two reflectors; weight empty, 200 lbs.; weight packed, 250 lbs. Complete.....Each, 140 00

**Extra Burners**.....Each, 30

## MILBURN ACETYLENE HAND LIGHTS

**Builder** 500 candle power for 10 hours, lights 40 ft. area; the most convenient hand light made for railroad, tunnel and builders' work. Size, 7 x 14 in.; weight complete, 11 lbs.....Each, $20 00

**Emergency** 400 candle power for 90 minutes, lights 500 ft. area, for fire salvage, etc. Size, 7 x 14 in., total weight when charged, 24 lbs.....Each, $20 00

SEATTLE HARDWARE COMPANY

# MINING SUPPLIES

## GOLD PANS

No. 1 16½ in., Pressed Steel, Polished Weight per Dozen, 22 lbs . . . . Per Dozen, $6 00
No. 2 12 in., Pressed Steel, Polished Weight per Dozen, 18 lbs . . . " 5 50

## MINERS' CANDLESTICK

Occident, Steel, One Piece

No. 15—Length, 9⅜ in. Weight per Dozen, 7½ lbs . . . . . Per Dozen, $7 50

## CANDLES

Schneider's, Adamantine

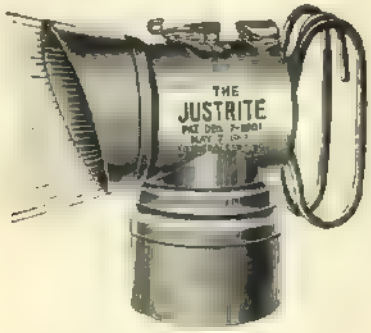
14 oz. 6s—20 Sets in Box. Weight per Box, 21 lbs. . . . . Per Set, $0 22
14 oz. 6s—40 Sets in Box. Weight per Box, 41 lbs. . . . . " 24

Schneider's, Stearic Wax

14 oz. 6s—20 Sets in Box. Weight per Box, 21 lbs . . . . . Per Set, $0 26
14 oz. 6s—40 Sets in Box. Weight per Box, 41 lbs. . . . . " 26

SEATTLE HARDWARE COMPANY

# JUSTRITE CARBIDE LAMPS




**Campers or Superintendent's**

| No. | | Each |
|---|---|---|
| 100 | —Nickel Plated, with German Silver Reflector; Lever Feed | $1 50 |

**Miner's Pit, Lever Feed**

**Matchless, Lever Feed, With Lighter Attachments**

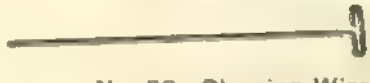
| No. | | Each |
|---|---|---|
| 80 | —Polished Brass, with Extra Container, 13½ Candle-power. Weight, 5 oz. | $1 00 |
| 85 | —Polished Brass, without Extra Container, 15½ Candle-power. Weight, 6 oz. | $1 00 |

*Easy to operate and keep clean. The valve is operated by a lever sliding back and forth, over notches, and held firmly in place by a small spring. It will not clog and does not require agitation in order to obtain water as needed. Prevents waste of carbide. When through using all gas is burned and the flame is slacked.*

*Points of Excellence. Large Water Reservoir, New Inserted Water Cup--absolutely watertight, Solid Reflector, cannot be broken off, New Hook and Clasp to hold Lamp secure to Cap Shield. New Pattern Burner Tip will not clog; New Adjustable Reflector Hood; Concaved Bottom, distributes water equally.*

## EXTRA PARTS FOR JUSTRITE LAMPS

**No. 65—Valve Stem**

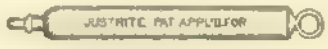


**No. 63 Cleaning Wire**

**No. 60—Rubber Gaskett**

**No. 62—Felt Packing**

| No. | | Each |
|---|---|---|
| 60 | —Rubber Packing for Lamps | $0 05 |
| 62 | Felt Packing, for Lamps | 05 |
| 63 | Cleaning Wire | 05 |
| 64 | Felt Holder for Lamps | 05 |
| 65 | Valve Stem | 15 |
| 66 | —Burner Tips for Lamps | 05 |




**Tip Cleaner**

To use, place the point at gas hole and push handle: point is protected when not in use.

| No. | | Each |
|---|---|---|
| 74 | | $0 15 |

**Matchless Reflector**

| No. | | Each |
|---|---|---|
| 26 | 2½ inch, Polished Brass; has lighter attached; can be put on any miners' carbide lamp | $0 25 |

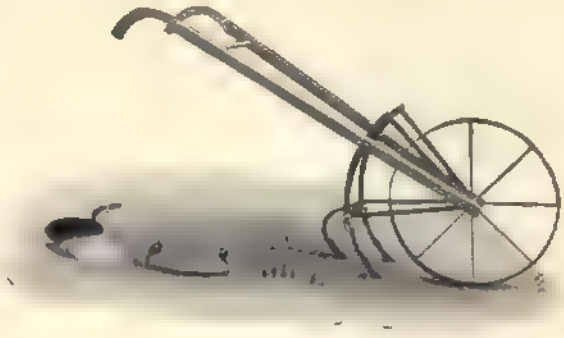
**Pocket Carbide Can**

| No. | | Each |
|---|---|---|
| No. 76 | —Holds a full day's supply | $0 10 |

# GARDEN CULTIVATORS

## "MOORE-EASY" CULTIVATORS AND DRILL ATTACHMENTS

Made of Steel and Malleable Iron. **Wheels** 23 inches high with tire 1½ inches wide Handles attach direct to the axle by wing nuts, and are raised or lowered without the use of a wrench The plow has a large moldboard and wide landside It will plow, furrow for seed or hill plants. The rake prepares ground for seed and kills small weeds. The hoe, or weed killer does the work of a hand hoe, destroys all weeds, works close to the plants without danger of injury to them, and leaves the ground level. Cultivator blades are long and reversible; center standard can be taken out and outside blades used for covering potatoes and other seed that require considerable depth These tools will work in hard, trashy ground All blades are of the highest quality of steel suitable for the purpose.

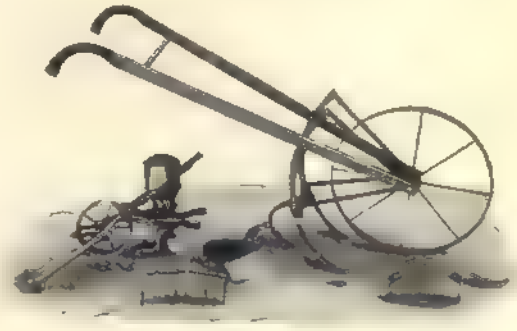


### No. 1—Garden Cultivator

Has three wide blades, reversible but not adjustable to width of row. Complete with Plow, Rake and Hoe.

**Each** ..... $14 00

AVERAGE WEIGHT (BUNDLED) 25 LBS

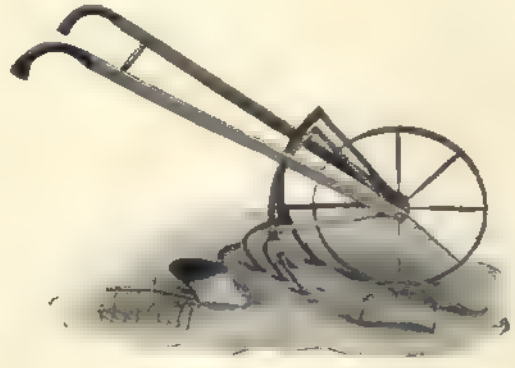


### No. 3—Garden Cultivator

With or without Drill. Has five blades, three of which are wider than the other two; reversible and adjustable to width of row. Complete with Plow, Rake and Hoe

**Without Drill Attachment** .....Each, $15 00
**With Drill Attachment**..... " 37 00

AVERAGE WEIGHT CULTIVATOR 25 LBS. DRILL ATTACHMENT 30 LBS



### No. 5—Garden Cultivator

Has five blades, reversible and adjustable to width of row. Complete with Plow, Rake and Hoe.

**Each** . . . $16 00

AVERAGE WEIGHT (BUNDLED) 25 LBS

**Drill Attachment** only. Weight Each, 30 lbs . . . . .

### No. 7—Garden Cultivator and Seed Drill

With Seed Drill Attachment. Has five narrow blades, reversible and adjustable to width of row. Complete with Plow, Rake and Hoe. Drill sows all kinds of garden seed well in hills, drills perfectly, and rolls.

**Each**..... $38 00

AVERAGE WEIGHT (BUNDLED) 55 LBS

. . . ....Each, $22 00

SEATTLE HARDWARE COMPANY

# HAND GARDEN CULTIVATORS

## NORCROSS

### Adjustable Prongs

Cut shows method of attaching to plow Wheel

No. 3N

No. 5N

Midget

The Norcross is the only cultivator having Detachable Handle Socket; by removing one bolt, socket with handle may be disconnected and the cultivator attached to the several standard plow wheels commonly used. (This is a patented feature.)

The prongs are changeable for rows of any width. Loosening two nuts releases any prong without disturbing the others. Works between rows, or center prong can be removed and rows straddled. May also be reduced to a three-shovel tool for narrow rows by removing the two outside longest prongs. No. 5N can also be used as a potato digger

| No. | | Per Doz. |
|---|---|---|
| **3N** | Three Blades, Square Spring Steel Prongs, Forged Shovels, Malleable Iron Socket, Frame and Clamping Bar. Metal parts painted black, silver bronze shovels. Handles 4-ft.; made of best grade white oak. Weight Doz., 27 lbs. | $12 00 |
| **5N** | –Five Blades, otherwise same as No. 3N. Weight Doz., 40 lbs. | 19 00 |

ONE-HALF DOZEN IN A BUNDLE CRATED

**Midget** –Three Blades, $^{3}/_{16}$ in Square Spring Steel Prongs attached to Malleable Iron Head with two bolts, 9 in Handle Designed for use in flowers, small shrubbery, etc. Weight Doz , 10 lbs . $6 25

ONE HALF DOZEN IN A BUNDLE

# HOES

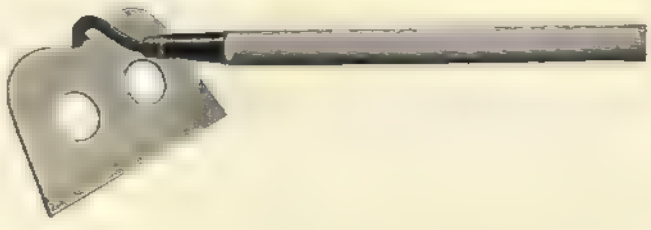
## MORTAR

Solid Socket, Steel Blade, 6-ft. Handles

| No. | | Per Doz. |
|---|---|---|
| **89** | Blades 9 in. Weight Doz , 52 lbs.. . | $27 90 |

ONE DOZEN IN A BUNDLE

## MORTAR MIXERS



Solid Shank, Steel Blade, Two Holes. 6-ft. Handles

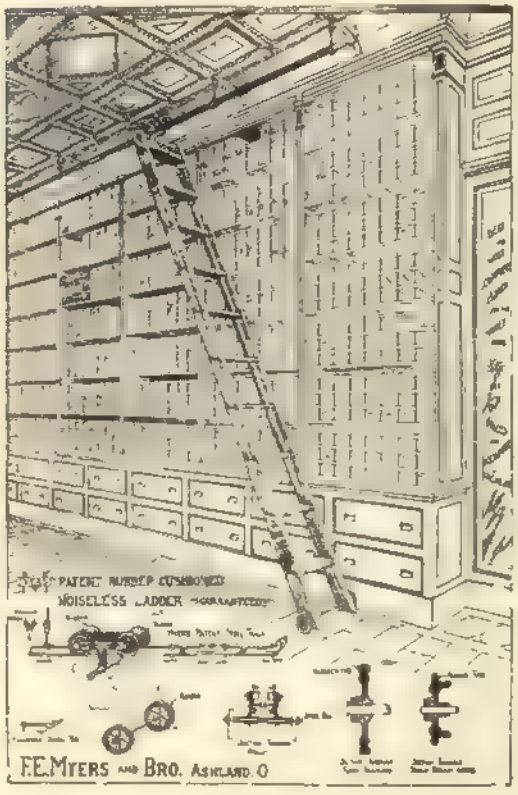
| No. | | Per Doz. |
|---|---|---|
| **M210**— | Blades 10 in. Weight Doz , 53 lbs . . | $27 90 |

ONE DOZEN IN A BUNDLE

# STORE LADDERS



## MYERS CUSHION TIRE, NOISELESS




Double-angle steel track; varnished Georgia pine ladder, 12 in. wide; open panel sides, 5 in. wide; 5-in steps; malleable-iron trolley, self-adjusting; 3-in. anti-rattler wheels, rubber tires; floor-travelers 5 in. diameter, with rubber cushion tires

**Ladder and Trolley,** Complete (Any Length Ladder). . . . . Each, $20 00

**Track,** with Hangers, Complete. . . Per Foot, 30

*Measurement Blanks furnished and prices quoted on application. In ordering, give the exact height of the ceiling and length of each track. If the height of the ceiling varies, give the height of ceiling at each end and center of each run of track. To ascertain the length of the ladder required, subtract from height of the room 11 inches and multiply the remainder by one and one-tenth.*

## BICYCLE

### Bent, for Floor

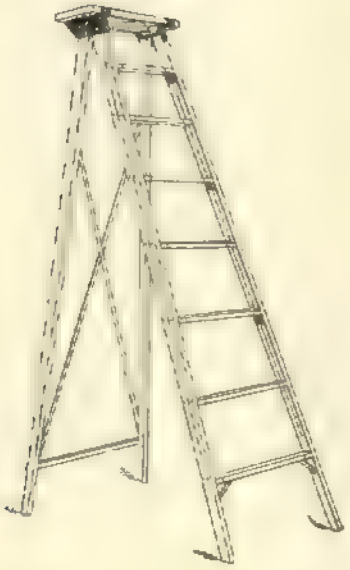
Made of oak or yellow pine, natural finish, with japanned or nickel-plated mountings. Noiseless steel track on floor supports the entire weight of ladder and operator, relieving all liability of ladder falling. Turned pole at top guides the upper end of ladder in moving it. Top of ladder has two hooks which fit over the pole, preventing it from tipping backward. Fitted with extra-wide top shelf for convenience in handling stock.

| No. | | Each |
|---|---|---|
| **1PJ** | —Yellow Pine, Japanned Trim | $10 00 |
| **1PNP** | —Yellow Pine, Nickel-Plated Trim | 11 50 |
| **10J** | —Oak, Japanned Trim | 11 00 |
| **10NP** | —Oak, Nickel-Plated Trim | 12 50 |

| | | |
|---|---|---|
| **Track**—Japanned Trim | Per Foot, | $0 25 |
| **Track** Nickel Plated | " | 30 |

*Store Ladders F. O. B. factory only. Rules for measurements sent on application.*

# STEP LADDERS



| Length, ft | 4 | 5 | 6 | 7 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|---|
| Weight, Each, lbs | 10 | 14 | 17 | 20 | 22 | 27 | 38 |
| No. 1 | Each, $1 20 | 1 50 | 1 80 | 2 10 | 2 40 | .... | ... |
| No. 2 | " .... | 2 00 | 2 40 | 2 80 | 3 20 | | |
| No. 3 | " .... | 2 50 | 3 00 | 3 50 | 4 00 | 5 00 | 6 00 |
| No. 4 | " 2 40 | 3 00 | 3 60 | 4 20 | 4 80 | 6 00 | 7 20 |

TIED, TWO IN A BUNDLE

*No. 1 has steel top brackets, thoroughly riveted to the sides and top. Steps are nailed with cement coated nails. Each ladder has a strong steel brace under the bottom step.*

*No. 2 is the same as No. 1 excepting that it has a steel angle brace under every other step. These braces are riveted to the sides and step, and in addition to this the steps are nailed with cement coated nails.*

*No. 3 is the same as No. 2, excepting that the steel angle braces are used under every step, making it one of the strongest ladders on the market.*

*No. 4 has steel top brackets riveted sides and top and steel rod beneath each step, with nut on each end which can be tightened and keep ladder rigid*

Straight Extension Ladder

## STRAIGHT AND EXTENSION LADDERS

### Straight Ladders

**No. 11**—One Section.....Per Foot, $0 38
*10, 12, 14, 16 and 18 ft.*

**No. 12**—Two Sections, Extension.....Per Foot, $0 41
*20, 22, 24, 26, 28 and 30 ft.*

### Tree Ladders

**No. 21**—One Section.....Per Foot, $0 33
*10, 12, 14, 16 and 18 ft.*

**No. 22**—Two Sections, Extension.....Per Foot, $0 36
*20, 22, 24, 26, 28 and 30 ft.*

These Ladders are made from selected Fir. Thoroughly Air Dried

Tree Ladder

# DUMB WAITER FIXTURES

**New York Safety** – Copper Bronzed Castings, Comprising Six 8-in Wheels, Two 4 in Wheels, One Pulley for Weight and Safety Rope, Five 1¼-in Thimbles, One ¾ in Thimble, One Ring for Safety Rope, One Brake Grip and Ring for Cord, One Hooded Pulley for Grip, One Patent Plate. Weight per Set, 70 lbs. ..... Per Set, $20 00

*The simplest, most durable and economical Waiter ever made. Lifts easily fifty to seventy-five pounds. Made in one size only, and suitable for any size opening up to twenty-four inches*

ONE SET IN A CASE WITH FULL DIRECTIONS

*Weights, Rope and Car not included.*

SEATTLE HARDWARE COMPANY

# POCKET KNIVES

## OCCIDENT—WARRANTED

| | | | |
|---|---|---|---|
| **No. 1546**—One Blade, 5 | in. | Black Bone Handle, Steel Lined | ... Per Dozen, $ 8 00 |
| **No. 1138**—One Blade, 5½ | in. | Cocoa Handle, Steel Lined, Polished Bolster | " 14 00 |
| **No. 1448** One Blade, 4⅛ | in. | Stag Handle, Brass Lined, Crocus Polished, Spring Back | " 15 00 |
| **No. 1449**—One Blade, 4⅛ | in | Stag Handle, Brass Lined, Crocus Polished, Spring Back | " 24 00 |
| **No. 1137** One Blade, 5½ | in | Ebony Handle, Brass Lined, Polished Bolsters, Crocus Polished | " 18 00 |

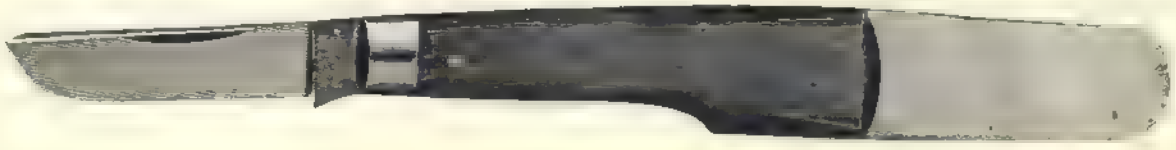
FULL SIZE CUTS ALL OF ABOVE, ONE-HALF DOZEN IN A BOX.

SEATTLE HARDWARE COMPANY

# KNIVES

## BUDDING

**No. 90** Full Size Cut, 2 inch Blade . . . . . Per Dozen, $3 00



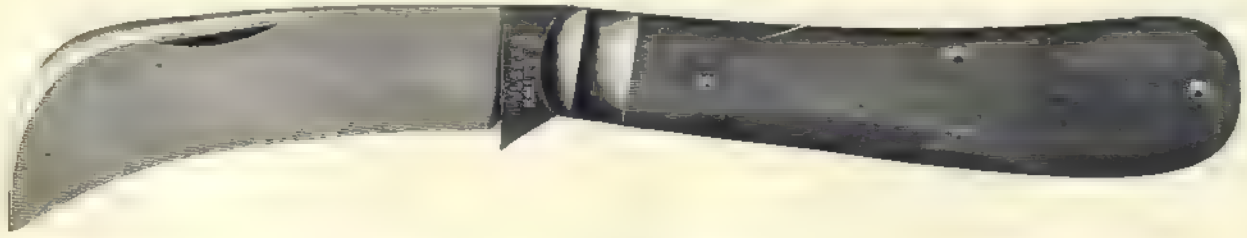
Occident

**No. 1545** One Blade, $3\frac{1}{8}$ in Horn Handle, Ivory Tip, Brass Lined, Polished Bolster Per Dozen, $15 00

## GRAFTING

**No. K1**—Full Size Cut, 3-in Blade. . . . . Per Dozen, $4 00

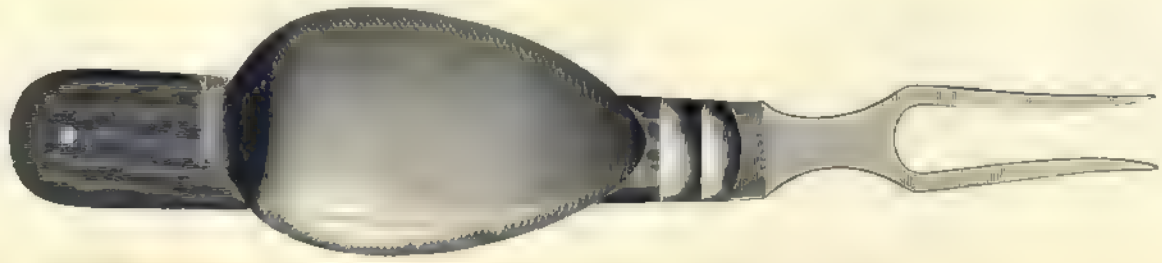
## PRUNING



Occident

**No. 1136**—One Blade, $4\frac{1}{4}$ in Cocoa Handle, Iron Lined Polished Bolster . Per Dozen, $9 00

## COMBINATION CAMP



**No. 3119** Knife, Fork and Spoon, $4\frac{3}{8}$ in. Cocoa Handle, Iron Lined, Polished Bolster Per Dozen, $18 00

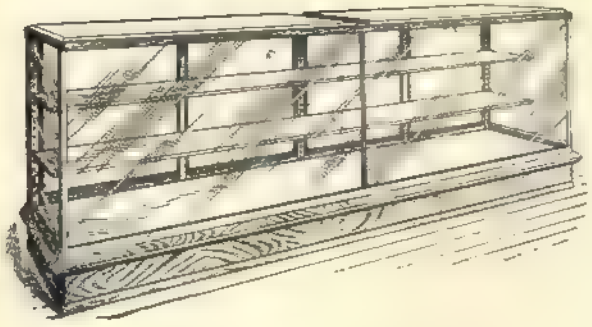
# SHOW CASES

## COUNTER

**Occident**—Combination Case, Solid Oak, Highly Polished, Plush Lined, Mirrored Door hung on Brass Spring Hinges Double Strength Glass, Length, 30 in., Width, 25 in., Height, 14½ in., with Spaces for Thirty-six Patterns of Pocket Knives, Eight Patterns of Razors or Scissors. Fitted with Partitioned Drawer to hold Duplicate Stock. Weight Each, 100 lbs.....Each, $35 00

PACKED ONE IN A CASE

## GOMOLL'S "UP-TO-DATE" FLOOR CASES



No. 1 RB—With Receding Base

No. 1 LB—With Leg Base

Made of best quarter sawed oak. Two light, heavy bevel plate glass top, front and ends are double-strength American glass. Two shelves, 10 and 14 in. wide, covered with nest green felt, and nickel plated adjustable brackets. Height of case, 42 in. Furnished regularly with clear glass door in back, with ball bearing rollers running on steel track, but can also be furnished with American mirror door in back when so ordered.

### No. 1 RB—With Receding Base

| Length, feet | 4 | 5 | 6 | 8 |
|---|---|---|---|---|
| Weight Each, lbs | 160 | 200 | 240 | 320 |
| Each | $60 00 | 70 00 | 84 00 | 104 00 |

### No. 1 LB—With Leg Base

| Length, feet | 4 | 5 | 6 | 8 |
|---|---|---|---|---|
| Weight Each, lbs | 160 | 200 | 240 | 320 |
| Each | $60 00 | 70 00 | 84 00 | 104 00 |

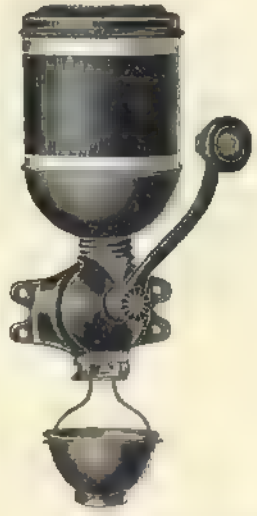
*For cases with mirror-back doors, add 50 cents net per foot to above prices.*

# COFFEE MILLS

### CANISTER

**No. 8**—Steel Canister and Cup, Lithographed in Rich Mahogany Design, Heavy Oval Glass Front, Chilled Grinders, Cotter Adjustment. Weight per Doz., 44 lbs.....Per Dozen, $8 50

ONE HALF DOZEN IN A CASE



**No. 444**—Parker's One-Pound Japanned Steel Canister, Chilled Grinders and Shells. Weight per Doz., 60 lbs.....Per Dozen, $8 50

# COFFEE AND SPICE MILLS

### ENTERPRISE

No. 0—Clamp

No. 2—Counter

No. 2½—Counter

### Clamp

**No. 0** Japanned. Will Grind 6 Ounces Coffee per Minute, Height 11½ in. Weight Each, 8 lbs .... ..Each, $3 00

ONE DOZEN IN A CASE

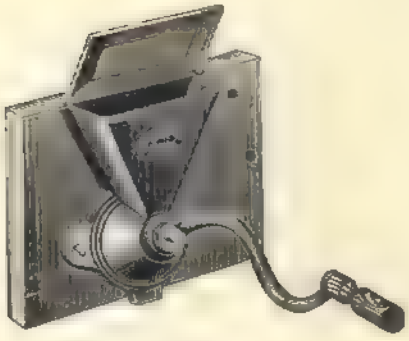
### Counter

**No. 2** —Iron Hopper, Decorated; Height, 12½ in ; Wheels, 8¼ in Will Grind 6 Ounces Coffee per Minute. Weight Each, 17 lbs. .....Each, $7 50

**No. 2½**—Nickel Plated Hopper, Decorated; Height, 15 in , Wheels, 8⅛ in. Will Grind 6 Ounces Coffee per Minute. Weight Each, 16 lbs.. ..... Each, 9 50

# COFFEE MILLS

WILSON'S SIDE

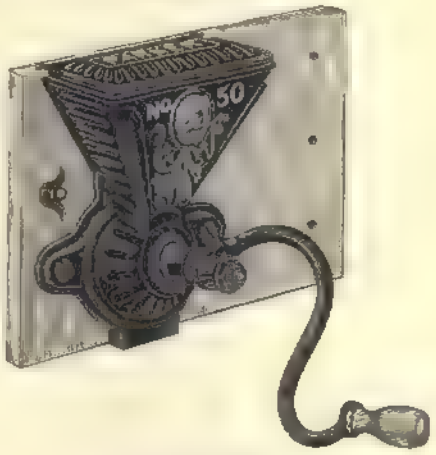


Wood Back

**No. 135** Old Wilson, Improved. Weight per Doz., 30 lbs ..... Per Dozen, $6 00

ONE DOZEN IN A CASE

PARKER'S SIDE



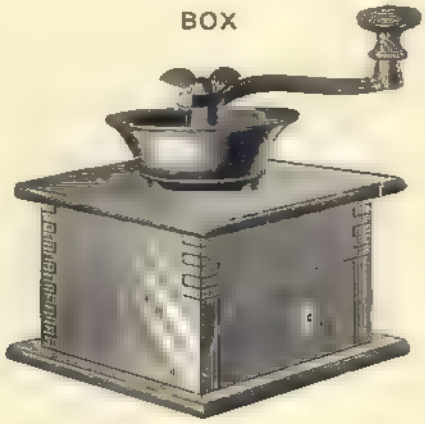

Wood Back

| Nos | 60 | 70 | 80 | 90 |
|---|---|---|---|---|
| Weight per Doz., lbs | 62 | 80 | 120 | 140 |
| Per Dozen | $8 50 | 10 00 | 16 00 | 26 00 |

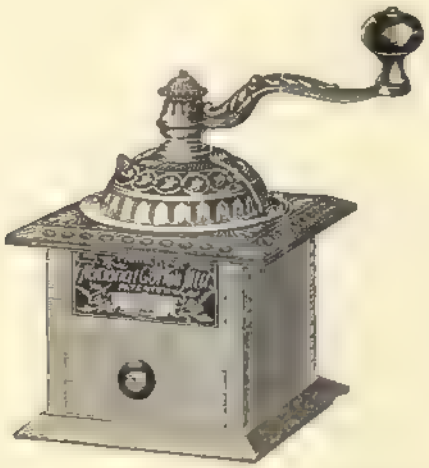
ONE-HALF DOZEN IN A CASE

SEATTLE HARDWARE COMPANY

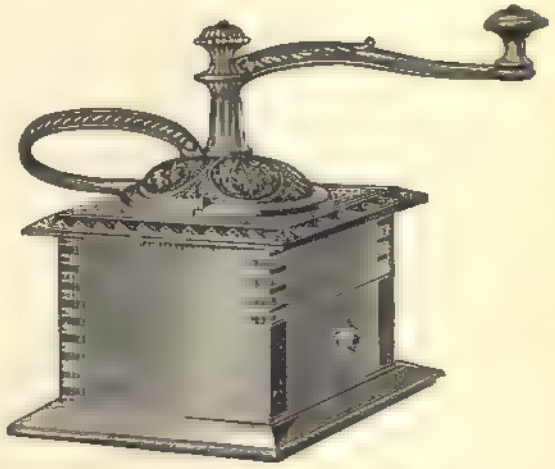
BOX



**No. 1180**—Iron Hopper, Dovetailed Box Weight per Doz., 60 lbs ..... Per Dozen, $ 6 00



**No. 401**—Iron Top, Dovetailed Box Weight per Doz., 75 lbs..... Per Dozen, $13 00



**No. 431**—Iron Top, with Handle, Dovetailed Box. Weight per Doz., 80 lbs..... Per Dozen, $13 00

ONE-HALF DOZEN IN A CASE

# SHOTGUNS

## PARKER

### Trojan Grade

Steel barrel, extra heavy breech, top snap, single bolt, automatic safety, case-hardened frame, all parts drop forged, Parker patent fore end checkered, pistol grip checkered, walnut stock, rubber butt-plate.

| | | |
|---|---|---|
| **12T**—12 Gauge, 28-in. Barrels | Each, | $35 00 |
| **12T**—12 Gauge, 30-in. Barrels | " | 35 00 |
| **16T**—16 Gauge, 28 in. Barrels | " | 35 00 |
| **20T**—20 Gauge, 28 in. Barrels | " | 35 00 |

### V. H. Grade

Fine Vulcan steel barrels, American walnut stock checkered and engraved, hard rubber butt plate, pistol grip.

| | | |
|---|---|---|
| **12VH** 12 Gauge, 30 in. Barrels | Each, | $37 50 |
| **16VH** —16 Gauge, 28-in. Barrels | " | 37 50 |
| **20VH** —20 Gauge, 28-in. Barrels | " | 37 50 |
| **12VHE**—12 Gauge, with Automatic Ejector, 30-in. Barrels | " | 56 25 |

### P. H. Grade

Fine English twist barrels, American walnut stock, pistol grip, checkered and engraved, hard rubber butt plate.

| | | |
|---|---|---|
| **12PH** —12 Gauge, 30-in. Barrels | Each, | $48 75 |
| **16PH** 16 Gauge, 28 in. Barrels | " | 48 75 |
| **16PHE**—16 Gauge, with Automatic Ejector, 30-in. Barrels | " | 67 50 |

### G. H. Grade

Fine three blade Damascus steel barrels, American walnut stock, checkered and engraved, hard rubber butt-plate, pistol grip.

| | | |
|---|---|---|
| **12GHE** 12 Gauge, with Automatic Ejector, 30-in. Barrels. | Each, | $78 75 |
| **16GHE**—16 Gauge, with Automatic Ejector, 28-in. Barrels. | " | 78 75 |

### D. H. Grade

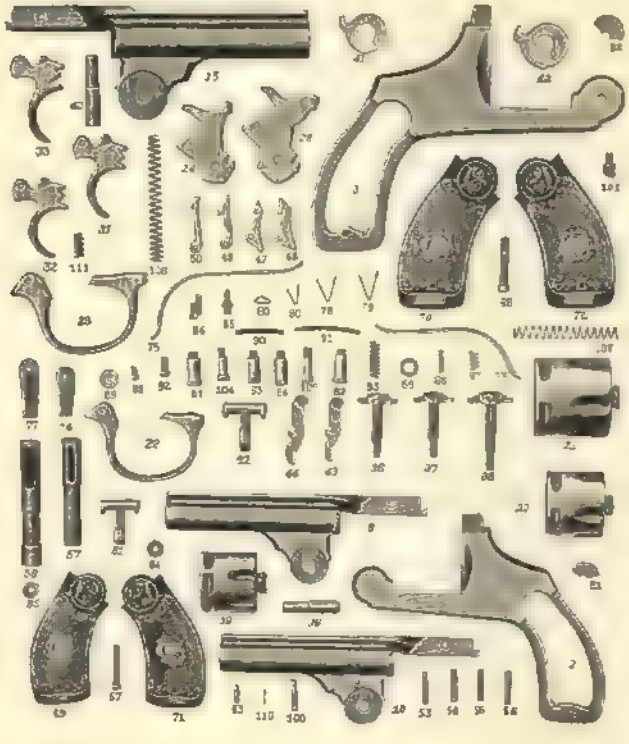
Fine Damascus steel barrels, imported walnut stock, checkered and engraved, silver shield, skeleton butt-plate, pistol grip.

| | | |
|---|---|---|
| **12DHE**—12 Gauge, with Automatic Ejector, 30 in Barrels | Each, | $93 75 |
| **16DHE**—12 Gauge, with Automatic Ejector, 28-in. Barrels. | " | 93 75 |

# COMPONENT PARTS

## IVER JOHNSON SAFETY REVOLVERS

### HAMMER—22, 32 AND 38 CALIBER



### HAMMERLESS—32 AND 38 CALIBER

SEATTLE HARDWARE COMPANY

| NAME OF PART | 22 cal. | 32 cal. | 38 cal. | Price |
|---|---|---|---|---|
| Frame | 1 | 2 | 3 | $1 40 |
| Barrel, 3 in. | 6 | 10 | | 1 50 |
| Barrel, 3½ in. | | | 5 | 1 75 |
| Barrel, 4 in. | 7 | 11 | 6 | 2 10 |
| Barrel, 5 in. | 8 | 12 | 17 | 2 75 |
| Barrel, 6 in. | 9 | 13 | 18 | 3 00 |
| Barrel, 12 in. | | 14 | | 1 50 |
| Cylinder | 14 | 20 | 21 | 85 |
| Guard | 22 | 22 | 23 | 08 |
| Hammer | 26 | 26 | 26 | 35 |
| Trigger | 31 | 32 | 33 | 40 |
| Extractor | 36 | 35 | 39 | 40 |
| Extractor Stem | 38 | 38 | 40 | 10 |
| Extractor Cam | 41 | 41 | 42 | 15 |
| Lifter | 43 | 43 | 44 | 15 |
| Sear | 47 | 47 | 48 | 08 |
| Lever | 49 | 49 | 50 | 08 |
| Barrel Catch | 51 | 51 | 52 | 25 |
| Trigger Pin | 50 | 53 | 54 | 02 |
| Guard Pin | 55 | 55 | 56 | 08 |
| Quill or Base Pin | 57 | 57 | 58 | 12 |
| Extract'r Cam Bush'g | 59 | 59 | 59 | 08 |
| Cam Bushing Spring | 60 | 60 | 60 | 08 |
| Joint Screw | 65 | 6 | 62 | 05 |

| NAME OF PART | 22 cal. | 32 cal. | 38 cal. | Price |
|---|---|---|---|---|
| Hammer Screw | 6 | 6 | 64 | 08 04 |
| Stock Screw | 67 | 67 | 68 | 04 |
| Stock, Right | 69 | 69 | 70 | 15 |
| Stock, Left | 71 | 71 | 72 | 15 |
| Main Spring | 73 | 73 | 75 | 10 |
| Trigger Spring | 76 | 76 | 77 | 08 |
| Lever Spring | 78 | 78 | 79 | 02 |
| Sear Spring | 8 | 8 | 8 | 12 |
| Sight | 81 | 81 | 82 | 04 |
| Lever Pin | 83 | 83 | 83 | 02 |
| Firing Pin | 84 | 85 | 85 | 05 |
| Firing Pin Spring | 86 | 87 | 87 | 02 |
| Firing Pin Screw | 88 | | | 03 |
| Firing Pin Nut | | 89 | 89 | 04 |
| Cylinder Friction Spr. | 90 | 90 | 91 | 02 |
| Guard Screw | 92 | 92 | 92 | 03 |
| Head Escutcheon | 94 | 94 | 94 | 02 |
| Thumb Escutcheon | 95 | 95 | 95 | 03 |
| Stock Pin | 0 | 00 | 00 | 02 |
| Barrel Catch Bolt | 101 | 101 | 101 | 08 |
| Barrel Catch Screw | 104 | 104 | 105 | 04 |
| Extractor Spring | 107 | 107 | 108 | 04 |
| Lifter Pin | 110 | 110 | 110 | 08 |
| Barrel Catch Spring | 111 | | 93 | 32 |

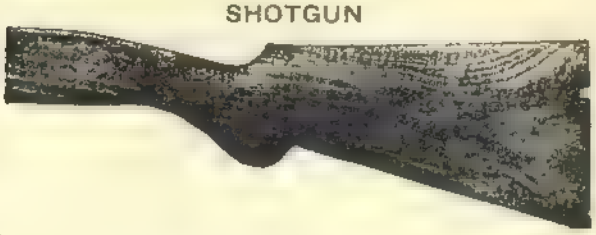
| NAME OF PART | 32 cal. | 38 cal. | Price |
|---|---|---|---|
| Frame | 4 | 5 | $1 40 |
| Barrel, 3 in. | 10 | | 1 50 |
| Barrel, 3½ in. | | 5 | 1 75 |
| Barrel, 4 in. | 11 | 6 | 2 10 |
| Barrel, 5 in. | 12 | 7 | 2 75 |
| Barrel, 6 in. | 13 | 78 | 3 37 |
| Barrel, 12 in. | 14 | | 1 50 |
| Cylinder | 20 | 2 | 85 |
| Guard | 24 | 25 | 30 |
| Hammer | 29 | 30 | 35 |
| Trigger | 31 | 35 | 40 |
| Extractor | 37 | 38 | 40 |
| Extractor Stem | 39 | 4 | 10 |
| Extractor Cam | 41 | 42 | 15 |
| Lifter | 45 | 46 | 15 |
| Lever | 49 | 40 | 08 |
| Barrel Catch | 5 | 52 | 25 |
| Trigger Pin | 53 | 54 | 02 |
| Guard Pin | 56 | 56 | 02 |
| Quill or Base Pin | 57 | 58 | 12 |
| Extractor Cam Bush.ng | 59 | 59 | 08 |
| Cam Bushing Spring | 60 | 60 | 08 |
| Joint Screw | 61 | 62 | 05 |
| Hammer Screw | 65 | 66 | 01 |
| Stock Screw | 67 | 68 | 04 |

| NAME OF PART | 32 cal. | 38 cal. | Price |
|---|---|---|---|
| Stock, Right | 69 | 70 | $0 5 |
| Stock, Left | 71 | 72 | 5 |
| Main Spring | 74 | 75 | 5 |
| Trigger Spring | 76 | 77 | 08 |
| Lever Spring | 78 | 79 | 02 |
| Sight | 81 | 82 | 04 |
| Lever Pin | 83 | 83 | 02 |
| Firing Pin | 85 | 85 | 05 |
| Firing Pin Spring | 87 | 87 | 02 |
| Firing Pin Nut | 89 | 89 | 04 |
| Cylinder Friction Spring | 90 | 91 | 02 |
| Guard Screw | 92 | 92 | 03 |
| Head Escutcheon | 94 | 94 | 02 |
| Thumb Escutcheon | 95 | 95 | 03 |
| Safety Catch | 96 | 97 | 10 |
| Stock Pin | 00 | 00 | 02 |
| Barrel Catch Bolt | 101 | 101 | 08 |
| Cap Pin | 103 | 103 | 02 |
| Barrel Catch Screw | 104 | 105 | 04 |
| Safety Catch Pin | 106 | 106 | 02 |
| Extractor Spring | 107 | 108 | 04 |
| Safety Catch Spring | 0 | 00 | 02 |
| Lifter Pin | 110 | 110 | 08 |

**When ordering parts that are supplied in both nickel and blue finish, always state which finish is desired.**

# STOCKS

## SHOTGUN



No. 1—Semi-Finish, Plain Walnut.....Each, $3 00

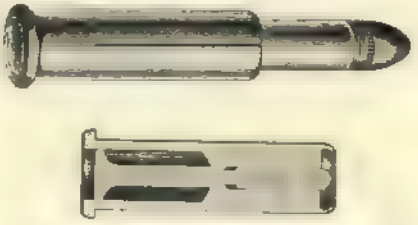
## PEARL REVOLVER

32 Caliber—Iver Johnson.....Per Pair, $2 50
38 Caliber—Iver Johnson..... " 3 00
32 Caliber—Colt's Pocket Positive..... " 4 50
38 Caliber—Colt's Military and Police...Per Pair, $5 00
38 Caliber—Colt's New Navy..... " 5 00

# SUPPLEMENTAL CHAMBERS

WINCHESTER

BRAYTON



30 Caliber—Winchester, for use with 32 S. & W. and 32 Short Colt Cartridges.....Per Dozen, $6 00
30 Caliber—Army, for use with 32 S. & W. and 32 Short Colt Cartridges.....Per Dozen, 6 00
303 Caliber—Savage, for use with 32 S. & W. and 32 Short Colt Cartridges.....Per Dozen, 6 00
32 Caliber—Winchester Special, for use with 32 Short Colt Cartridges.....Per Dozen, 6 00
32-40 Caliber—For use with 32 Short Colt " " 6 00
35 Caliber—Winchester, for use with 38 Colt New Police and 38 S. & W. Cartridges.Per Dozen, 6 00
405 Caliber—W. C. F., for use with 41 Colt D. A. Short Cartridges.....Per Dozen, 6 00
30 Caliber—Government Model '06, for use with 32 S. & W. Cartridges.....Per Dozen, 6 00

No. 150—30 Remington Rimless, for use with 32 Short Colt Cartridges.....Per Dozen, $9 00
No. 151—30 30 for use with 32 Short Colt Cartridges.....Per Dozen, 9 00
No. 153—303 for use with 32 S. & W. Smokeless Cartridges.....Per Dozen, 9 00
No. 154—303, for use with 32 Colt Automatic Cartridges.....Per Dozen, 9 00
No. 155—30 40 for use with 32 S. & W. Smokeless Cartridges.....Per Dozen, 9 00
No. 156—30 40 for use with 32 Colt New Police Cartridges.....Per Dozen, 9 00
No. 157—30 40 for use with 32 Colt Automatic Cartridges.....Per Dozen, 9 00
No. 158—32 Special, for use with 32 Colt Automatic Cartridges.....Per Dozen, 9 00
No. 161—22 Savage Hi Power, for use with 22 Long Rifle.....Per Dozen, 9 00

# RELOADING TOOLS

## WINCHESTER

Winchester—Without Mould, One Size Only..Per Set, $2 00
Winchester—With Mould, One Size Only.... " 3 00
Extra—Bullet Mould.....Each, 1 10
Weight without Mould 3 lbs. per Set.
Weight with Mould, 4 lbs. per Set.

**Winchester Reloading Tools are Made for Reloading the Following Cartridges:**

Without Mould—25-35 Winchester, 30 Winchester, 30 U. S. Army, 32 Special, 303 Savage
With Mould—25 20, 32 20, 32 40, 38 55, 38 50, 38 70, 38 72, 40-60, 40 65, 40 70, 40 72, 40 82, 45 60, 45 70, Model '86 and 45 90

## WINCHESTER LEVER TOOL

Winchester—With Mould.....Per Set, $2 50
Extra—Bullet Mould.....Each, 1 10
Weight 3 lbs. per Set complete

**Winchester Lever Tool is Made for Reloading the Following Cartridges:**

25 20 W. C. F., 25 20 Marlin, 25 20 Single Shot, 32 W. C. F., 32 Marlin, 32 S. & W., 38 S. & W., 38 W. C. F., 41 Long Colt D. A., and 44 W. C. F.

**Sets Include Extractor Plug and Charge Cup.**

# COMPONENT PARTS

## SMITH & WESSON REVOLVERS

### 32 AND 38 CALIBER DOUBLE ACTION

| No. | | |
|---|---|---|
| 155 | Barrel, 3 in | $5 00 |
| 155 | Barrel, 3½ in | 5 00 |
| 155 | Barrel, 6 in | 7 00 |
| 156 | Frame | 6 00 |
| 165 | Guard | 1 00 |
| 181 | Rear Sear | 40 |
| 157 | Cylinder | 50 |
| 184 | Sight | 20 |
| 160 | Side Plate | 50 |
| 161 | Base Pin | 50 |
| 175 | Extractor Cam | 60 |
| 162 | Barrel Catch | 70 |
| 158 | Hammer | 1 00 |
| 159 | Trigger | 70 |
| 177 | Extractor Post | 20 |
| 163 | Extractor | 50 |
| 179 | Right Hand Stock | 50 |
| 180 | Left Hand Stock | 50 |
| 166 | Stock Screw | 10 |
| 167 | Strain Screw | 10 |
| 168 | Barrel Catch Screw | 10 |
| 169 | Joint Pivot and Screw | 30 |
| 170 | Hammer Stud | $0 20 |
| 171 | Extractor Stud | 20 |
| 172 | Hammer Stud Nut | 10 |
| 173 | Stirrup | 30 |
| 174 | Barrel Catch Cam | 30 |
| 176 | Extractor Spring | 10 |
| 178 | Mainspring | 50 |

| No. | | |
|---|---|---|
| 183 | Front Sear | $0 70 |
| 182 | Hand | 50 |
| 164 | Cylinder Stop | 50 |
| 186 | Hand Spring | 10 |
| 185 | Barrel Catch Cam Spring | 10 |
| 187 | Trigger Spring | 20 |
| 188 | Rear Sear Spring | 50 |

### 32 AND 38 CALIBER SAFETY HAMMERLESS

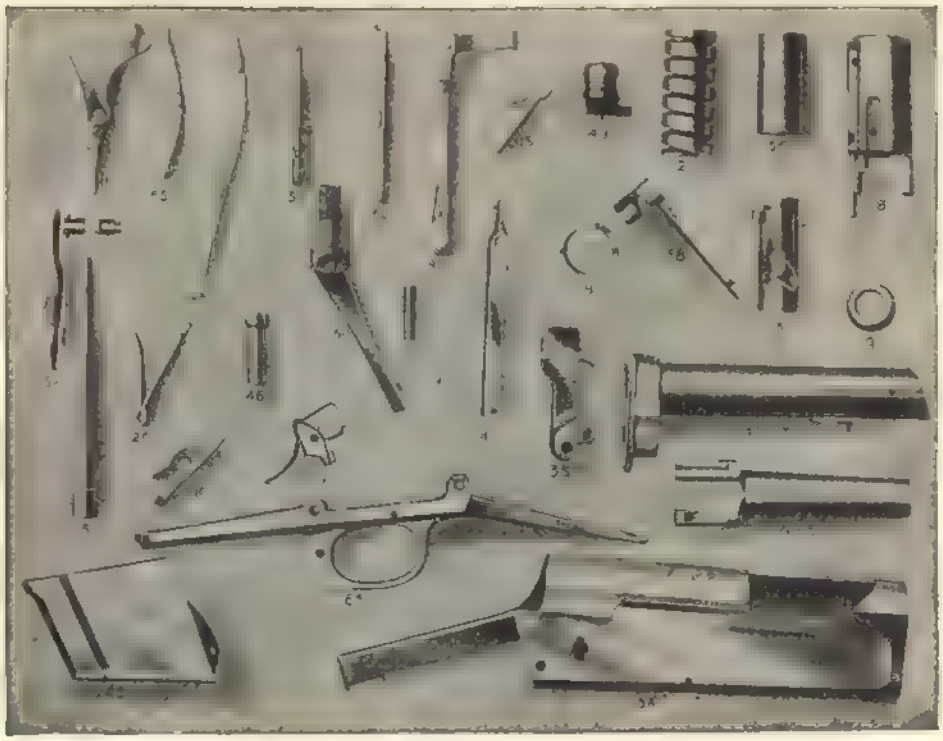
| No. | | |
|---|---|---|
| 68 | Barrel, 3¼ in | $5 50 |
| 68 | Barrel, 5 in | 6 50 |
| 68 | Barrel, 6 in | 7 50 |
| 69 | Cylinder | 3 00 |
| 71 | Frame | 6 50 |
| 76 | Side Plate | 50 |
| 80 | Gas Ring | 15 |
| 86 | Barrel Catch | 70 |
| 77 | Trigger Guard | 1 00 |
| 78 | Mainspring | 50 |
| 98 | Extractor Spring | 10 |
| 107 | Cylinder Stop Spring | 50 |
| 96 | Hammer Stud | 20 |
| 101 | Barrel Catch Cam Spring | 10 |
| 80 | Firing Pin Bushing | 20 |
| 94 | Hammer Stud Nut | 10 |
| 103 | Firing Pin Spring | 10 |
| 90 | Sight | 20 |
| 108 | Latch Spring (Old Model) | 50 |
| | Spiral Latch Spring (New Model) | 10 |
| 104 | Handspring | 10 |
| 87 | Sear (Front) | 70 |
| 92 | Stock Screw | 10 |
| 95 | Extractor Stud | $0 20 |
| 97 | Firing Pin | 20 |
| 88 | Stirrup | 30 |
| 93 | Strain Screw | 10 |
| 106 | Trigger Spring | 20 |
| 105 | Split Spring | 50 |
| 85 | Safety Latch | 20 |
| 84 | Hand | 50 |
| 79 | Safety Lever | 1 00 |

| No. | | |
|---|---|---|
| 72 | Base Pin | $ 50 |
| 74 | Cylinder Stop | 70 |
| 70 | Extractor | 50 |
| 77 | Trigger | 70 |
| 73 | Hammer | 60 |
| 81 | Extractor Post | 20 |
| 83 | Extractor Cam and Catch | 60 |
| 99 | Right Hand Stock | 50 |
| 100 | Left Hand Stock | 50 |

Above parts furnished on special order only, for shipment direct from factory. In Ordering Parts Give Caliber of Revolver.

# COMPONENT PARTS

## REMINGTON AUTO-LOADING RIFLE



| NO. | | | NO. | | | NO. | | | NO. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | Bolt | $3 00 | 23 | Butt Plate | $0 85 | 30 | Extractor | $0 75 | 43 | Magazine | $3 00 |
| 18 | Bolt-carrier | 5 00 | 24 | Butt Plate Screws, Each | 10 | 31 | Firing Pin | 50 | 45 | Magazine Spring | 50 |
| 19 | Bolt-carrier Latch | 30 | 25 | Carrier Latch Screw | 10 | 33 | Forearm, plain | 2 00 | 46 | Magazine Follower | 25 |
| 20 | Bolt-carrier Latch Spring | 15 | 26 | Ejector | 20 | 34 | Forearm Screw and Swivel | 25 | 47 | Main-spring | 40 |
| 21 | Buffer Spring | 50 | 27 | Ejector Pin | 10 | | | | 48 | Main-spring Screw | 10 |
| 22 | Butt Stock, plain | 3 50 | 28 | Ejector Spring | 10 | 35 | Hammer | | 49 | Operating Handle | 50 |

| NO. | | |
|---|---|---|
| 54 | Receiver | $10 0 |
| 55 | Recoil Spring | 20 |
| 57 | Safety | 50 |
| 62 | Trigger | 50 |
| 63 | Trigger Spring | 20 |
| 64 | Trigger Pin | 15 |

**Above parts furnished on special order only, shipment direct from factory.**

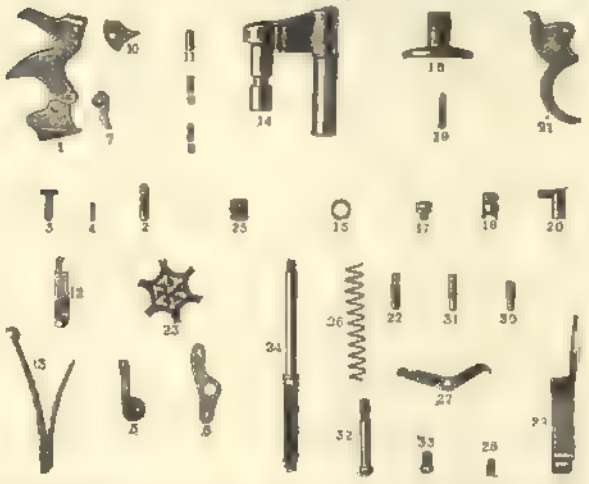
## SAVAGE AUTOMATIC PISTOL

SEATTLE HARDWARE COMPANY

# COMPONENT PARTS

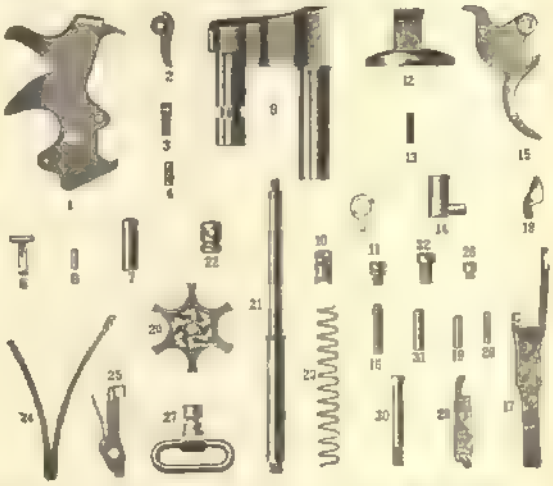
## COLT'S REVOLVERS

### Police Positive Revolver, 38 Caliber



| NO. | | NO. | | NO. | |
|---|---|---|---|---|---|
| 1 | Hammer complete | $1 70 | 16 | Crane Lock | $0 45 |
| 2 | Hammer Pin | 05 | 17 | Crane Lock Screw | 07 |
| 3 | Hammer Stirrup | 20 | 18 | Latch | 75 |
| 4 | Hammer Stirrup Pin | 05 | 19 | Latch Spring | 02 |
| 5 | Safety | 25 | 20 | Latch Pin | 15 |
| 6 | Safety Lever | 15 | 21 | Trigger | 85 |
| 7 | Strut | 25 | 22 | Trigger Pin | 03 |
| 8 | Strut Spring | 05 | 23 | Ejector and Ratchet | 80 |
| 9 | Strut Pin | 05 | 24 | Ejector Rod | 25 |
| 10 | Firing Pin | 15 | 25 | Ejector Rod Head | 15 |
| 11 | Firing Pin Pin | 02 | 26 | Ejector Spring | 10 |
| 12 | Hand | 40 | 27 | Bolt | 50 |
| 13 | Main Spring | 50 | 28 | Bolt Screw | 05 |
| 14 | Crane | 2 35 | 29 | Lever | 25 |
| 15 | Crane Bushing | 10 | 31 | Stock Pin | 02 |
| | | | 32 | Stock Screw | 05 |
| | | | 33 | Side Plate Screw | 05 |
| | | | | Frame and Cap | 6 50 |
| | | | | Side Plate | 80 |
| | | | | Cylinder | 3 25 |
| | | | | Safety Pin | 02 |
| | | | | Safety Lever Pin | 02 |
| | | | | Bolt Spring | 03 |
| | | | | Latch Pin Stub | 03 |
| | | | | Barrel 4 in. with Sight | 1 50 |
| | | | | Barrel 6 in. with Sight | 2 00 |
| | | | | Recoil Plate | 05 |
| | | | | Stocks, per Pair | 75 |
| | | | | Escutcheons, per Set | 05 |

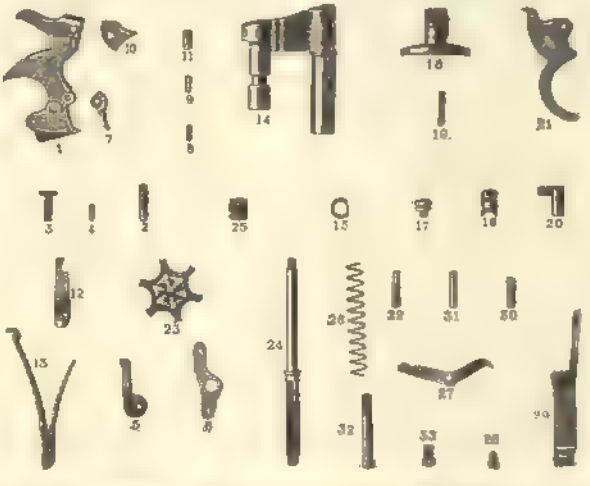
### "New Service"



| NO. | | NO. | | NO. | |
|---|---|---|---|---|---|
| 1 | Hammer | $1 50 | 15 | Trigger | $0 [illegible] |
| 2 | Strut | 25 | 16 | Trigger Pin | 04 |
| 3 | Strut Spring | 05 | 17 | Lever | 85 |
| 4 | Strut Pin | 05 | 18 | Lever Fly | 10 |
| 5 | Hammer Stirrup | 20 | 19 | Lever Pin | 07 |
| 6 | Hammer Stirrup Pin | 05 | 29 | Ejector and Ratchet | 65 |
| 7 | Hammer Pin | 05 | 21 | Ejector Rod | 45 |
| 8 | Crane | 3 00 | 22 | Ejector Rod Head | 15 |
| 9 | Crane Bushing | 10 | 23 | Ejector Spring | |
| 10 | Crane Lock | 15 | 24 | Main Spring | |
| 11 | Crane Lock Screw | 07 | 25 | Bolt and Spring | 35 |
| 12 | Latch | 1 00 | | Bolt Spring | 05 |
| 13 | Latch Spring | 05 | 26 | Bolt Screw | 05 |
| 14 | Latch Pin | 12 | 27 | Swivel, complete | 19 |

| NO. | | NO. | |
|---|---|---|---|
| 28 | Swivel | $0 [illegible] | |
| 29 | Hand | | |
| 30 | Stock Screw | | |
| 31 | Stock Pin | | |
| 32 | Cam Screw | | |
| | Barrel | 1 [illegible] | |
| | Cylinder | 3 [illegible] | |
| | Lock Frame | | |
| | Stocks, per Pair | 75 | |
| | Escutcheons, per Set | 05 | |
| | Recoil Plate | 05 | |
| | Side Plate | 1 70 | |
| | Swivel Nose Fitting Pin | 10 | |

### "Pocket Positive," "Police Positive" and "Police Positive Target" Double Action Revolver, 32 Caliber.

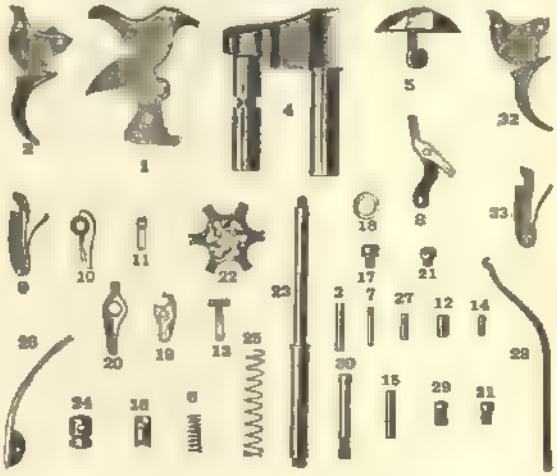


| NO. | | NO. | | NO. | |
|---|---|---|---|---|---|
| 1 | Hammer, complete | $ 90 | 16 | Crane Lock | $0 25 |
| 2 | Hammer Pin | 05 | 17 | Crane Lock Screw | 05 |
| 3 | Hammer Stirrup | 20 | 18 | Latch | 05 |
| 4 | Hammer Stirrup Pin | 02 | 19 | Latch Spring | 02 |
| 5 | Safety | 25 | 20 | Latch Pin | 1 |
| 6 | Safety Lever | 10 | 21 | Trigger | 60 |
| 7 | Strut | 25 | 22 | Trigger Pin | 01 |
| 8 | Strut Spring | 05 | 23 | Ejector and Ratchet | 75 |
| 9 | Strut Pin | 03 | 24 | Ejector Rod | 25 |
| 10 | Firing Pin | 15 | 25 | Ejector Rod Head | 15 |
| 11 | Firing Pin Pin | 02 | 26 | Ejector Spring | 10 |
| 12 | Hand | 40 | 27 | Bolt and Spring | 40 |
| 13 | Main Spring | 50 | | Bolt Spring | 03 |
| 14 | Crane | 2 25 | 28 | Bolt Screw | 05 |
| 15 | Crane Bushing | 9 | 29 | Lever | 25 |
| | | | 31 | Stock Pin | 02 |
| | | | 32 | Stock Screw | 05 |
| | | | 33 | Side Plate Screw | 05 |
| | | | | Frame and Cap | 4 50 |
| | | | | Side Plate | 80 |
| | | | | Cylinder | 3 00 |
| | | | | Safety Pin | 02 |
| | | | | Safety Lever Pin | 02 |
| | | | | Latch Pin Stub | 05 |
| | | | | Barrel 4 in. Pocket or Police | 2 00 |
| | | | | Recoil Plate | 05 |
| | | | | Stocks, per Pair | 75 |
| | | | | Escutcheons, per Set | 05 |

*Extra price charged for Target Revolver Parts.*

*In ordering Parts, specify number of Revolver.*

### New Army, New Navy, Marine Corps and Officers' Model Revolvers.



| NO. | | NO. | | NO. | |
|---|---|---|---|---|---|
| 1 | Hammer | $1 50 | 16 | Crane Lock | $0 15 |
| 2 | Trigger | 60 | 17 | Crane Lock Screw | 07 |
| 3 | Trigger Pin | 03 | 18 | Crane Bushing | 05 |
| 4 | Barrel | 2 00 | 19 | Bolt and Hand Spring | 35 |
| 5 | Lock Spring | 02 | 20 | Bolt Screw | 05 |
| 7 | Latch Pin | 02 | 21 | Locking Lever | 80 |
| 8 | Rebound Lever | 10 | 23 | Ejector and Ratchet | 65 |
| 9 | Hand and Hand Spring | 35 | 24 | Ejector Rod | 35 |
| 10 | Strut | 25 | 25 | Ejector Spring | 10 |
| 11 | Strut Spring | 05 | 27 | Trigger Lever and Stop Pin | 05 |
| 12 | Strut Pin | 05 | 28 | Main Spring | 35 |
| 13 | Hammer Screw | 05 | 29 | Main Spring Set Screw | 15 |
| 14 | Hammer Stirrup Pin | 02 | | | |
| 15 | Hammer Pin | 05 | | | |

| NO. | | |
|---|---|---|
| 30 | Stock Screw | $0 05 |
| 31 | Side Plate Screw | 05 |
| 32 | Trigger "S" Model | 80 |
| 33 | Hammer and Hand Spring "S" Model | 35 |
| | Barrel | 2 [illegible] |
| | Cylinder | 3 [illegible] |
| | Swivel Ring | 05 |
| | Swivel Stud | 11 |
| | Swivel, complete | 19 |
| | Lock Frame | 7 [illegible] |
| | Stocks, per Pair | 75 |
| | Corps, per Pair | 2 35 |
| | Escutcheons, per Set | 05 |
| | Recoil Plate | 05 |
| | Side Plate | 1 00 |

*Extra price charged for Officers' Model Parts.*

*The above parts are for all New Navy and New Army Revolvers made, excepting Nos. 32 and 33 which are adapted to the first model New Navy made without Cylinder Bolt or Automatic Safety Device. In ordering, give number of part.*

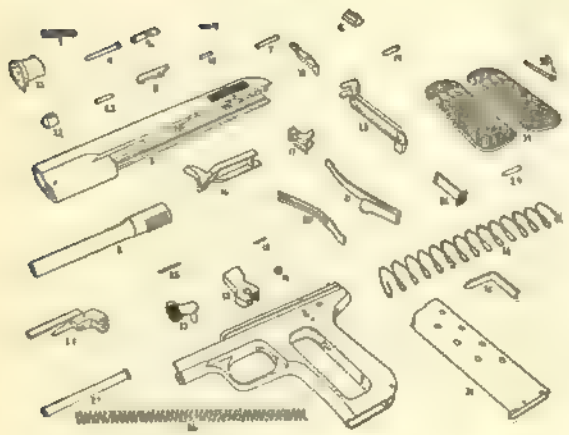
**Above parts furnished on special order only, for shipment direct from factory.**

SEATTLE HARDWARE COMPANY

# COMPONENT PARTS

## COLT'S AUTOMATIC PISTOL

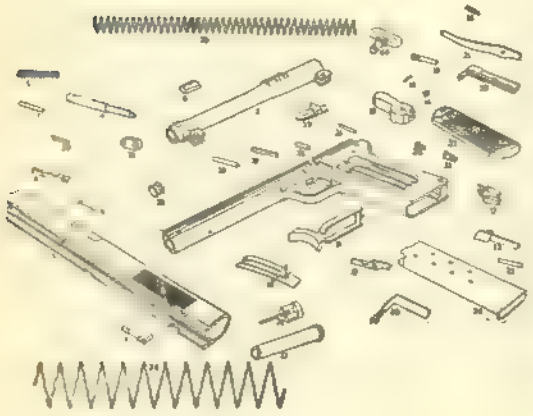
### 32 CALIBER. POCKET MODEL



| | | | | | |
|---|---|---|---|---|---|
| 1 | Receiver | $8 50 | 15 | Hammer Roll Pin | $0 02 |
| 2 | Barrel | 3 00 | 16 | Trigger | 75 |
| 3 | Slide | 3 00 | 17 | Sear | 35 |
| 4 | Frnt Firing Pin | 12 | 18 | Safety | 40 |
| 4a | Rear Firing Pin | 10 | 19 | Sear and Safety Pin | 02 |
| 5 | Firing Pin Spring | 03 | 20 | Sear, Safety and Trigger Spring | 10 |
| 6 | Rear Sight | 20 | 21 | Main Spring | 40 |
| 7 | Firing Pin Lck Pin | 02 | 22 | Plug | 12 |
| 8 | Shell Extractor | 20 | 23 | Plug Pin | 04 |
| 9 | Shell Extractor Spg | 03 | 24 | Ejector | 45 |
| 10 | Shell Extractor Pin | 03 | 25 | Ejector Pin | 02 |
| 11 | Barrel Lock | 50 | 26 | Retractor Spring | 10 |
| 12 | Hammer | 35 | 27 | Retractor Spring Guide | 15 |
| 13 | Slide Lock Safety | 40 | | | |
| 14 | Hammer Roll | 03 | | | |

| | | | |
|---|---|---|---|
| 28 | Automatic Grip Safety | $0 75 |
| 29 | Automatic SafetyPin | 02 |
| 30 | Magazine Catch | 25 |
| 31 | Magazine, complete with Follower and Spring | 1 00 |
| 32 | Magazine Follower | 05 |
| 33 | Magazine Spring | 20 |
| 34 | Scales, Right and Left Hand | 75 |
| 35 | Scale Screw | 03 |
| | Escutcheons per set | 05 |
| | Side Lock Safety Screw | 05 |
| | Front Sight | 10 |

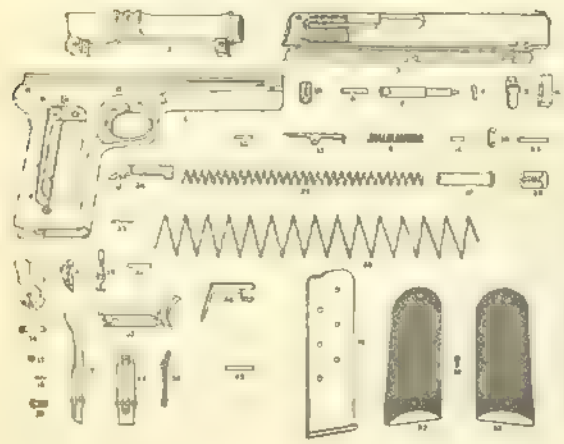
### 38 CALIBER



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | Receiver | $12 00 | 17 | Sear | $0 45 | 32 | Magazine Catch | $0 25 |
| 2 | Barrel | 3 00 | 18 | Safety | 35 | 33 | Magazine Catch Pin | 02 |
| 3 | Slide | 3 00 | 19 | Sear and Safety Pin | 02 | 34 | Magazine Complete | 1 50 |
| 4 | Firing Pin | 45 | 20 | Sear, Safety and Trigger Spring | 10 | 35 | Magazine, Follower | 05 |
| 5 | Firing Pin Spring | 03 | 21 | Mainspring | 35 | 36 | Magazine Spring | 35 |
| 6 | Rear Sight | 20 | 22 | Mainspring Screw | 03 | 37 | Stocks, per Pair | 75 |
| 7 | Firing Pin Lock Pin | 02 | 23 | Ejector | 30 | 38 | Stock Screws (4) Each | 03 |
| 8 | Shell Extractor | 15 | 24 | Ejector Pin | 01 | 39 | Slide Stop | 35 |
| 9 | Shell Extractor Spring | 05 | 25 | Recoil Plug | 15 | 40 | Swivel | 15 |
| 10 | Shell Extractor Pin | 02 | 26 | Retractor Spring | 15 | 41 | Swivel Pin | 03 |
| 11 | Slide Lock | 15 | 27 | Follower | 35 | | Escutcheons per Set (4) | 10 |
| 12 | Hammer | 45 | 28 | Plug (Take Down) | 25 | | Front Sight | 15 |
| 13 | Hammer Screw | 03 | 29 | Plug and Link Pin | 02 | | Firing Pin Lock Stop | 03 |
| 14 | Hammer Bell | 03 | 30 | Links (2) Each | 10 | | Firing Pin Lock Stop Spring | 02 |
| 15 | Hammer Roll Pin | 02 | 31 | Link Pin, Short | 01 | | | |
| 16 | Trigger | 30 | | | | | | |

In ordering please give number of pistol as improvements have been made since first issue e. g., the original pistol had a combination rear sigh and safety lock, a different pin, etc.

### 45 CALIBER



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | Receiver | $12 00 | 16 | Hammer Roll Pin | $0 03 | 30 | Link (2) | $0 1 |
| 2 | Barrel | 4 00 | 17 | Mainspring | 35 | 31 | Link Pin, Short (2) | 01 |
| 3 | Slide | 4 00 | 18 | Mainspring Screw | 03 | 32 | Magazine Catch | 25 |
| 4 | Slide Lock | 30 | 19 | Safety | 35 | 33 | Magazine Catch Pin | 03 |
| 5 | Slide Stop | 50 | 20 | Sear | 45 | 34 | Magazine Follower | 05 |
| 6 | Slide Stop Spring | 10 | 21 | Sear and Safety Pin | 02 | 35 | Magazine Spring | 40 |
| 7 | Firing Pin | 45 | 22 | Sear, Safety and Trigger Spring | 10 | 36 | Magazine, Complete | 1 50 |
| 8 | Firing Pin Spring | 03 | 23 | Trigger | 90 | 37 | Stock, Right and Left Hand, (per Pair) | 1 50 |
| 9 | Firing Pin Lock Pin | 03 | 24 | Ejector | 40 | 38 | Stock Screws (4) | 03 |
| 10 | Rear Sight | 20 | 25 | Ejector Pin | 01 | | Stock Screw Studs (4) | 06 |
| 11 | Shell Extractor | 30 | 26 | Retractor Spring | 15 | | | |
| 12 | Shell Extractor Pin | 03 | 27 | Follower | 35 | | | |
| 13 | Hammer | 45 | 28 | Plug (Take-down) | 25 | | | |
| 14 | Hammer Screw | 03 | 29 | Plug and Link Pin (2) | 03 | | | |
| 15 | Hammer Roll | 03 | | | | | | |

Above parts furnished on special order only, for shipment direct from factory. In ordering, give number of part and caliber of revolver.

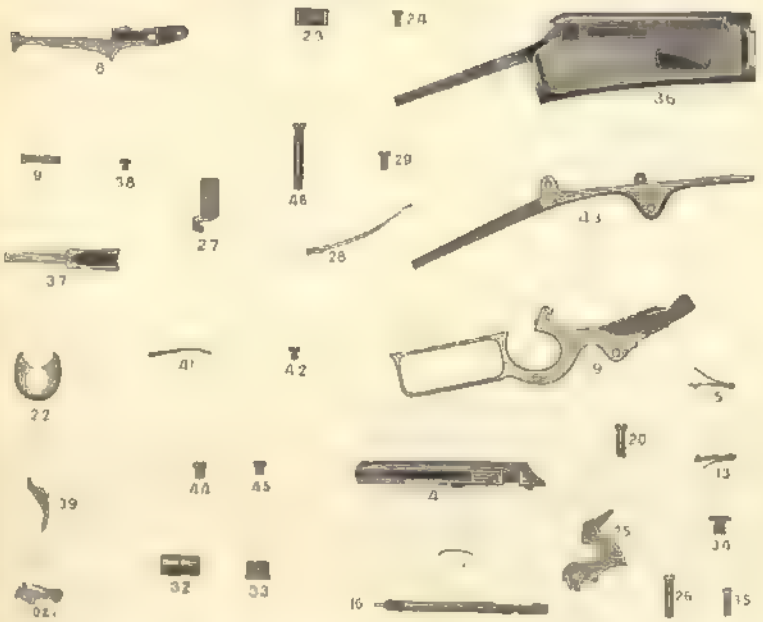
# SEATTLE HARDWARE COMPANY

# COMPONENT PARTS

## MARLIN REPEATING RIFLE



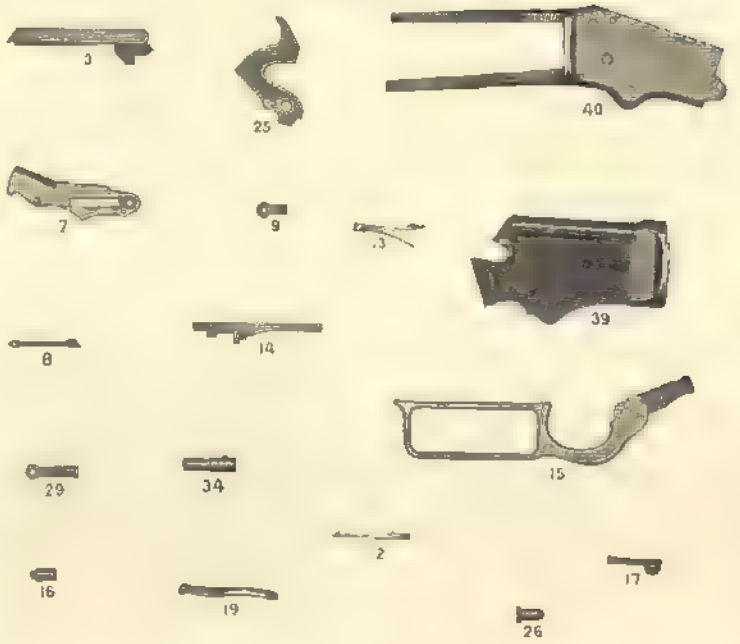
## MODEL 1893



| NO. | | |
|---|---|---|
| | Barrel, Carbine, 20-in., Grade "B" | $5 50 |
| | (a) Barrel Carbine 20-in. Smok Steel, | 7 50 |
| | Barrel Round rifle 26-in., Grade "B" | 6 25 |
| | (a) Barrel Round rifle 26-in. Smok Steel, | 8 25 |
| | Barrel Octagon or ½ Oct Rifle 26-in Grade "B" | 8 00 |
| | (a) Barrel Oct. or ½ Oct Rifle 26-in Smok Steel | 10 00 |
| | Barrels extra, ½ per two inches | 2 00 |
| 4 | Breech Bolt | 2 50 |
| | Buttstock | 1 00 |
| | Buttplate | 80 |
| | Buttplate Screws (2) each | 10 |
| 8 | Carrier | 2 00 |
| 10 | Carrier Rocker | 45 |
| | Carrier Rocker Pin | 10 |
| 11 | Carrier Rocker Spring | 1 |
| 9 | Carrier Screw | |
| | Dummy Screw (to fill Sight Screw Hole in tang or in top of Receiver) each | 10 |
| 15 | Ejector | 30 |
| 13 | Extractor | 30 |
| | Extractor Pin | 10 |
| 19 | Finger Lever (with Plunger) | 2 00 |
| 20 | Finger Lever Screw | 15 |
| 18 | Firing Pin (3 pieces) | 60 |
| | (a) Long Firing Pin | 40 |
| | (b) Short Firing Pin | 30 |
| 17 | Firing Pin Spring | 15 |
| | Firing Pin Pin | 10 |
| | Forearm | 75 |

| NO. | | |
|---|---|---|
| 23 | Forearm Tip | $0 60 |
| 36 | Forearm Tip Tenon | 35 |
| 24 | Forearm Tip Tenon Screws (2) each | 10 |
| 22 | Hammer | 60 |
| 21 | Hammer Screw | 15 |
| 37 | Loading Spring Cover | 50 |
| 38 | Loading Spring Cover Screw | 10 |
| 27 | Locking Bolt | 75 |
| | Magazine Tube | 1 00 |
| 33 | Magazine Tube Plug | 25 |
| | Magazine Tube Spring | 30 |
| 32 | Magazine Tube Spring Follower | 25 |
| 34 | Magazine Tube Stud | 40 |
| 35 | Magazine Tube Stud Screw | |
| 29 | Mainspring | 35 |
| 30 | Mainspring Screw | 10 |
| 26 | Receiver | 3 00 |
| 40 | Tang Screw | 15 |
| 39 | Trigger | 45 |
| | Trigger Pin | 10 |
| 41 | Trigger Spring | |
| 42 | Trigger Spring Screw | 10 |
| 43 | Trigger Plate | 2 00 |
| 44 | Trigger Plate Screw | 15 |
| | Trigger Plate Support Screw | 15 |
| | Front Band for Carbine | 60 |
| | Front Band Screw for Carbine | 15 |
| | Rear Band for Carbine | 85 |
| | Rear Band Screw for Carbine | 15 |
| | Sling Ring and Staple for Carbine | 40 |
| | Stock Swivel and Screw | 40 |
| | Tip Swivel | 40 |

## MODEL 1897



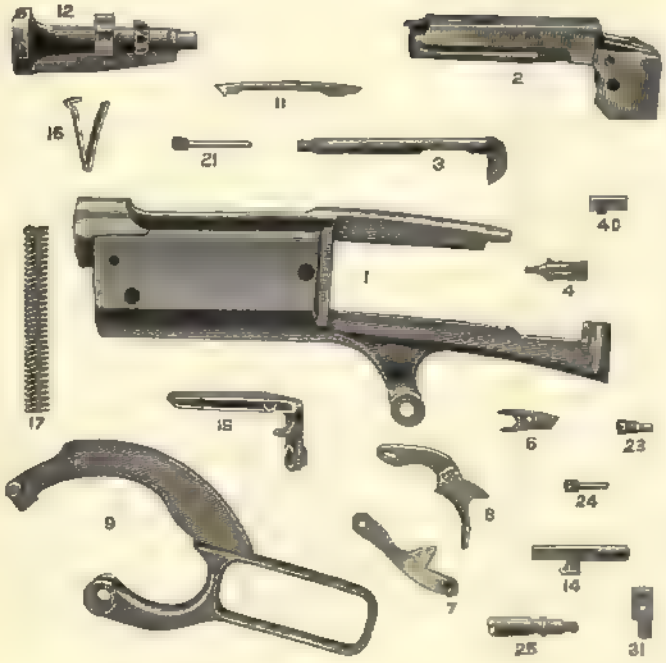
| NO. | | |
|---|---|---|
| | Barrel Round 24-in. | $6 25 |
| | Barrel Octagon or Half Octagon, 24-in. | 8 00 |
| | Barrel extra lengths per two inches | 2 00 |
| 3 | Breech Bolt | 2 00 |
| | Buttstock | 1 00 |
| | Buttplate | 80 |
| | Buttplate Screws (2) Each | 10 |
| 7 | Carrier | 50 |
| 8 | Carrier Rocker | 75 |
| 9 | Carrier Rocker Spring | 15 |
| | Carrier Rocker Spring Screw | 10 |
| | Carrier Pivot Screw | 15 |
| | Cartridge Guide | 15 |
| | Cartridge Guide Spring | 25 |
| | Cartridge Guide Spring Screw | 10 |
| 6 | Cartridge Stop | 25 |
| | Cartridge Stop Screw | 10 |
| | Dummy Screw (to fill Sight Screw Hole in Tang and top of Receiver) Each | 10 |
| 18 | Ejector | 30 |
| 13 | Extractor | 30 |
| 15 | Finger Lever | 1 50 |
| 17 | Finger Lever Spring | 25 |
| | Finger Lever Spring Screw | 15 |
| 28 | Finger Lever Screw | 15 |
| 14 | Firing Pin | 60 |
| | Forearm | 75 |
| | Forearm Tip | 60 |

| NO. | | |
|---|---|---|
| | Forearm Tip Tenon | $0 35 |
| | Forearm Tip Tenon Screws (2) Each | 10 |
| 25 | Hammer | 60 |
| 16 | Hammer Screw | 15 |
| 29 | Magazine Cartridge Cut-Off | 30 |
| | Magazine Cartridge Cut-Off Screw | 10 |
| | Magazine Tube Outside | 1 50 |
| | Magazine Tube Inside | 1 50 |
| | Magazine Tube Latch | 30 |
| | Magazine Tube Latch Spring | 10 |
| | Magazine Latch Pin | 10 |
| | Magazine Tube Plug Inside | 25 |
| | Magazine Tube Plug, Outside | 25 |
| | Magazine Tube Spring | 25 |
| 34 | Magazine Tube Spring Follower | 30 |
| | Magazine Tube Stud | 25 |
| | Magazine Tube Stud Screw | 15 |
| | Mainspring | 35 |
| | Mainspring Screw | 15 |
| 39 | Receiver Left Side | 5 00 |
| 40 | Receiver Right Side | 5 00 |
| | Tang Screw | 15 |
| | Thumb Screw | 20 |
| | Thumb Screw Collar | 10 |
| | Trigger | 45 |
| | Trigger Pin | 10 |
| | Trigger Spring | 20 |
| | Trigger Spring Screw | 10 |

Above parts are furnished on special order only, for shipment direct from factory

# COMPONENT PARTS

## SAVAGE RIFLE

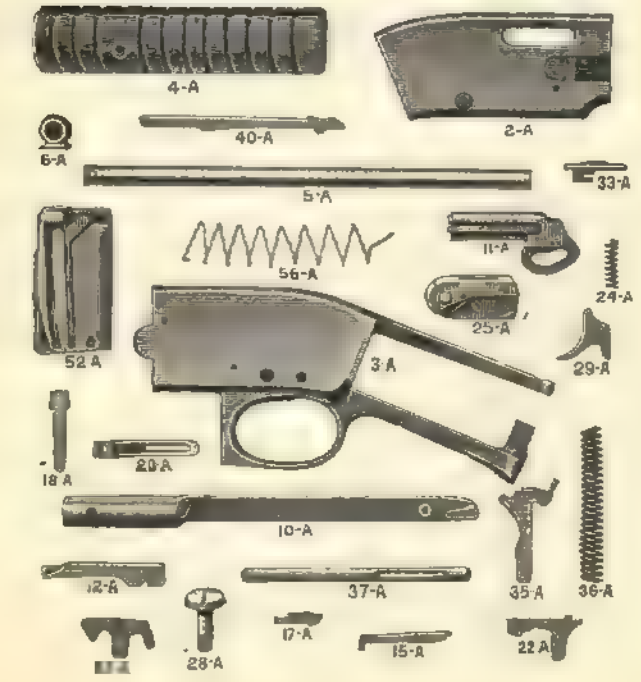



### MODEL 1899

| NO. | | |
|---|---|---|
| 1 | Receiver | $7 00 |
| 2 | Breech-Bolt | 3 00 |
| 3 | Hammer | 60 |
| 4 | Firing Pin | 40 |
| 5 | Hammer Bushing | 15 |
| 6 | Hammer Retractor | 30 |
| 6a | Hammer Retractor Spring | 15 |
| 7 | Sear | 40 |
| 8 | Trigger | 40 |
| 9 | Finger-Lever | 1 75 |
| 10 | Finger-Lever Bushing | 25 |
| 11 | Extractor | 30 |
| 12 | Magazine Carrier | 1 00 |
| 13 | Magazine Spindle | 30 |
| 13a | Magazine Spindle Head | 30 |
| 13b | Magazine Spindle Nut | 15 |
| 14 | Trigger and Lever Lock | 50 |
| 15 | Automatic Cut-off | 2 00 |
| 16 | Automatic Cut-off Spring | 25 |
| 17 | Main Spring | 30 |
| 18 | Trigger Spring | 30 |
| 19 | Magazine Spring | 30 |
| 20 | Barrel Stud | 25 |
| 21 | Magazine Spindle Screw | 15 |
| 22 | Finger-Lever Bushing Screw | 15 |
| 23 | Hammer Retractor Screw | 10 |
| 24 | Hammer Bushing Screw | 20 10 |
| 25 | Sear Screw | 30 |
| 26 | Trigger Spring Screw | 05 |
| 27 | Trigger Pin | 05 |
| 28 | Extractor Pin | 05 |
| 29 | Firing Pin Securing Pin | 05 |
| 30 | Bolt-Stop Screw | 05 |
| 31 | Bolt-Stop | 10 |
| 32 | Barrel (Round) | 9 00 |
| 32a | Barrel (Octagon) | 10 50 |
| 32b | Barrel (Half Octagon) | 10 50 |
| 33 | Butt-Stock | 2 00 |
| 34 | Butt-Stock Screw | 25 |
| 35 | Butt-Plate (Rifle) | 30 |
| 35a | Butt-Plate (Shot Gun,) Steel | 30 |
| 35b | Butt-Plate (Shot Gun), Rubber | 60 |
| 36 | Butt-Plate Screws (2), each | 05 |
| 37 | Fore-Arm | 1 00 |
| 38 | Fore-Arm Screw | 05 |
| 39 | Fore-Arm Washer | 10 |
| 40 | Hammer Indicator | 40 |
| 41 | Hammer Indicator Washer | 10 |
| 42 | Hammer Indicator Pin | 05 |
| 43 | Cig. Stop (small projecting part on top of Breech-Bolt) | 25 |

*In ordering, give the name and number of the part, also model and number of the rifle.*

*Note.—In ordering Butt-Stocks or Fore-Arms, mention if octagon, half octagon, or round fore-arm, and if rifle, rubber, carbine or shot-gun butt is required.*




### MODEL 1903

| NO. | | |
|---|---|---|
| 1-A | Barrel, 24 in. Octagon | $8 00 |
| 2-A | Barrel Receiver | 4 00 |
| 3-A | Stock Receiver | 5 00 |
| 4-A | Slide Handle | 40 |
| 5-A | Slide Handle Rd | 20 |
| 6-A | Barrel Stud | 25 |
| 7-A | Barrel Stud Screw | 05 |
| 8-A | 2 Slide Handle Escutcheons (each) | 05 |
| 9-A | 2 Slide Handle Screws, (each) | 05 |
| 10-A | Action Slide | 60 |
| 11-A | Breech-Bolt | 1 00 |
| 12-A | Striker | 40 |
| 13-A | Striker Pin | 03 |
| 14-A | Striker Stop Pin | 03 |
| 15-A | Extractor | 25 |
| 16-A | Extractor Pin | 03 |
| 17-A | Ejector | 20 |
| 18-A | Ejector Spring | 15 |
| 19-A | Ejector Pin | 03 |
| 20-A | Ejector Plate | 30 |
| 21-A | Ejector Block Screw | 05 |
| 22-A | Magazine Catch | 15 |
| 23-A | Magazine Catch Pin | 05 |
| 24-A | Magazine Catch Spring | 10 |
| 25-A | Hammer | 60 |
| 26-A | Hammer Pin | 05 |
| 27-A | Hammer Screw | 10 |
| 28-A | Assembling Screw | 20 20 |
| 29-A | Trigger | 40 |
| 30-A | Trigger Pin | 05 |
| 31-A | Trigger Spring | 15 |
| 32-A | Trigger Spring Screw | 05 |
| 33-A | Safety Slide | 25 |
| 34-A | Safety Slide Pin | 02 |
| 35-A | Safety Bar | 15 |
| 36-A | Main Spring | 30 |
| 37-A | Main Spring Rod | 30 |
| 38-A | Main Spring Washer | 10 |
| 39-A | Main Spring Pin | 03 |
| 40-A | Action Slide Lock | 15 |
| 41-A | Action Slide Lock Spring | 15 |
| 42-A | Action Slide Lock Pin | 03 |
| 43-A | Butt-Stock | 1 80 |
| 44-A | Butt-Stock Screw | 10 |
| 45-A | Butt-Plate, steel rifle or shot gun | 30 |
| 46-A | 2 Butt-Plate Screws (each) | 05 |
| 47-A | Long Dead Screw | 05 |
| 48-A | Short Dead Screw | 05 |
| 53-A | Magazine (complete) | 25 |
| 56-A | Magazine Spring | 10 |
| 57-A | Magazine Carrier | 10 |
| 58-A | Magazine Body | 15 |
| 59-A | Rear Sight Screw | 05 |
| 60-A | Rubber Butt-Plate | 50 |

*When ordering, give the name and number of the part, also model and number of rifle.*

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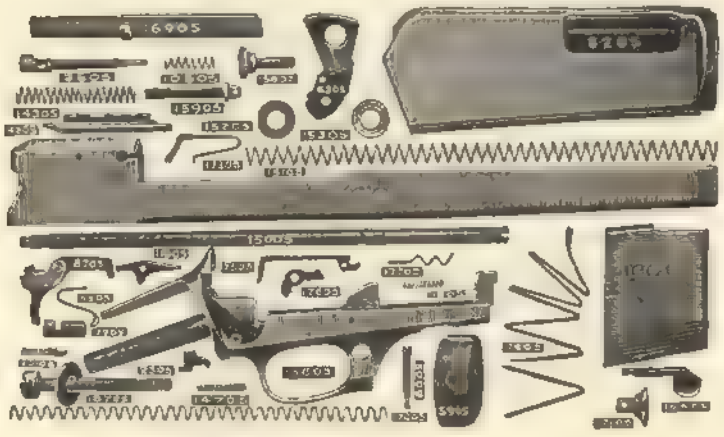
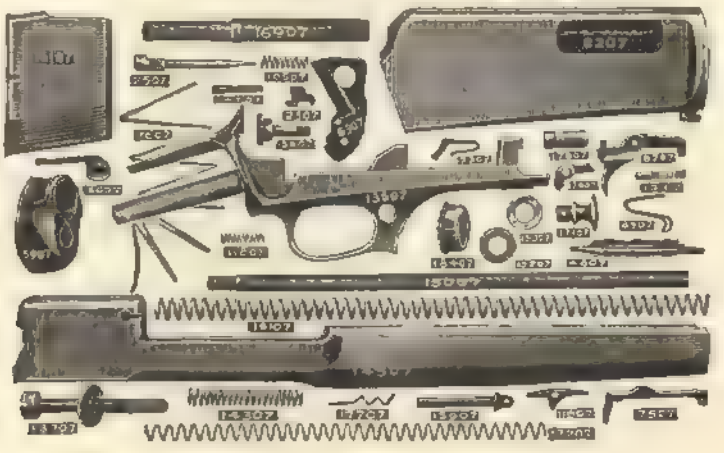
# COMPONENT PARTS

## WINCHESTER SELF-LOADING RIFLES—MODEL 1905



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 305 | Extractor | $0 [illegible] | 1035 | Hammer Spring | $0 15 | 1605 | Sear | $0 39 |
| 2505 | Firing Pin | [illegible] | [illegible] | [illegible] | 25 | 11805 | Sear Spring | 05 |
| 10505 | Firing Pin Spring | 05 | [illegible] | [illegible] | 10 | 8705 | Trigger | 85 |
| 65805 | Forearm | 1 00 | [illegible] | [illegible] | [illegible] | 8905 | Trigger Spring | 10 |
| 5905 | Forearm Tip | 1 40 | [illegible] | [illegible] | 50 | | | |

## MODEL 1907

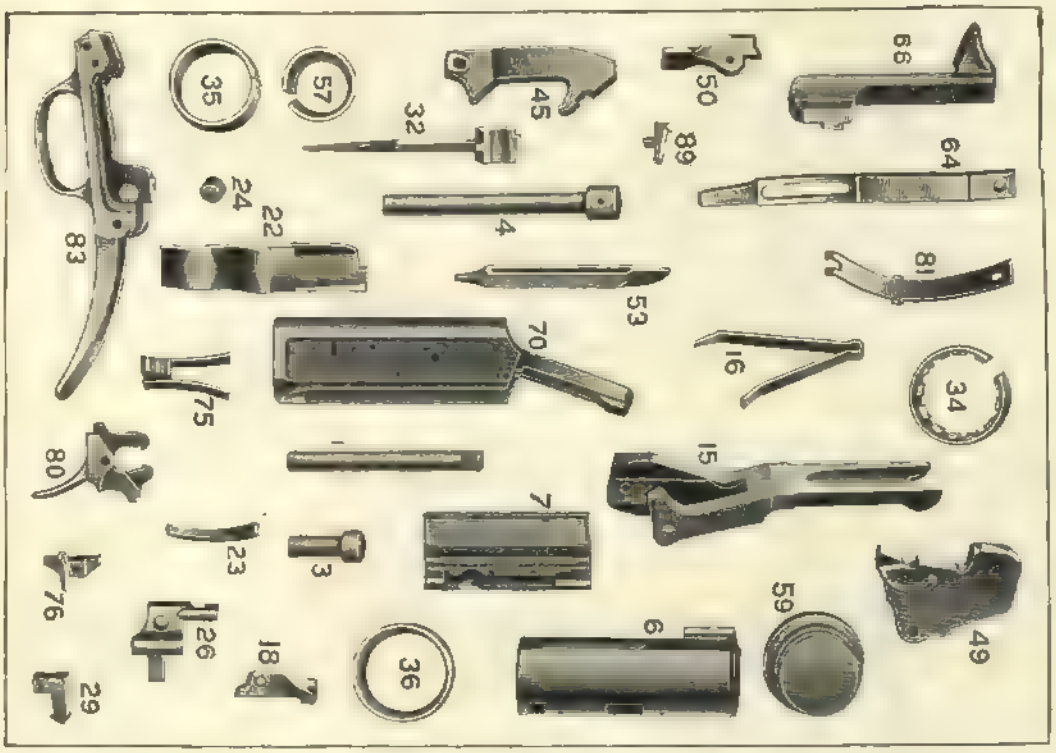


| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3907 | Extractor | $0 [illegible] | 1015 | Magazine | $0 70 | 11607 | Sear | |
| 2507 | Firing Pin | [illegible] | [illegible] | Magazine Spring | 25 | 11807 | Sear Spring | $0 05 |
| 10507 | Firing Pin Spring | 05 | [illegible] | Magazine Follower | 45 | 8707 | Trigger | 85 |
| 5807 | Forearm | 90 | [illegible] | Ejector | 50 | 8907 | Trigger Spring | 10 |
| 5907 | Forearm Tip | 40 | 4307 | Hammer Spring | 10 | | | |

SEATTLE HARDWARE COMPANY

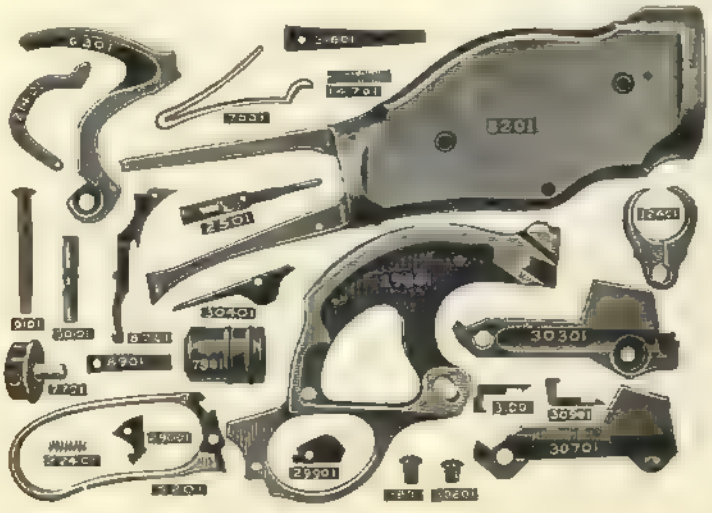
# COMPONENT PARTS

## REMINGTON AUTO-LOADING SHOTGUN



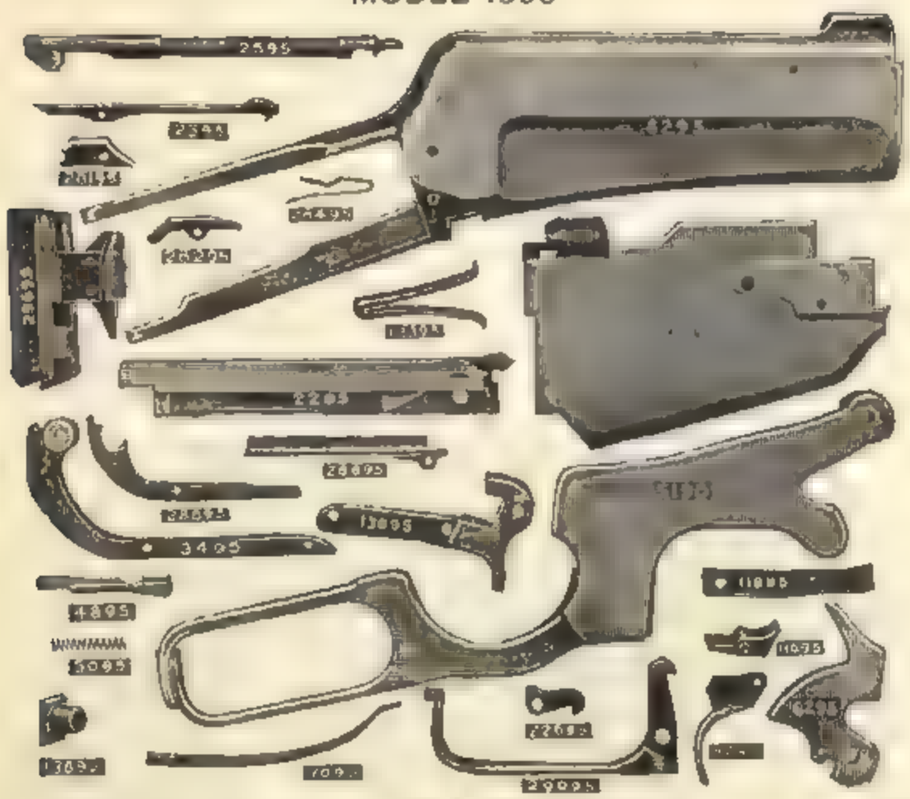

| | | |
|---|---|---|
| 15 Carrier | $2 00 | |
| 17 Carrier Spring | 35 | |
| 18 Carrier Dog | 25 | |
| 22 Carrier Latch | 75 | |
| 23 Carrier Latch Spring | 15 | |
| 24 Carrier Latch Button | 15 | |
| 26 Cartridge Stop | $0 75 | |
| 29 Extractor | 40 | |
| 32 Firing Pin | 50 | |
| 35 Friction Spring | 35 | |
| 36 Friction Ring | 35 | |
| 45 Hammer | 75 | |
| 49 Magazine Cap | $0 50 | |
| 64 Main Spring | 40 | |
| 75 Safety | 40 | |
| 76 Safety Sear | 25 | |
| 80 Trigger | 30 | |
| 81 Trigger Spring | 20 | |
| 89 Ejector | 20 | |

## WINCHESTER MODEL 1901



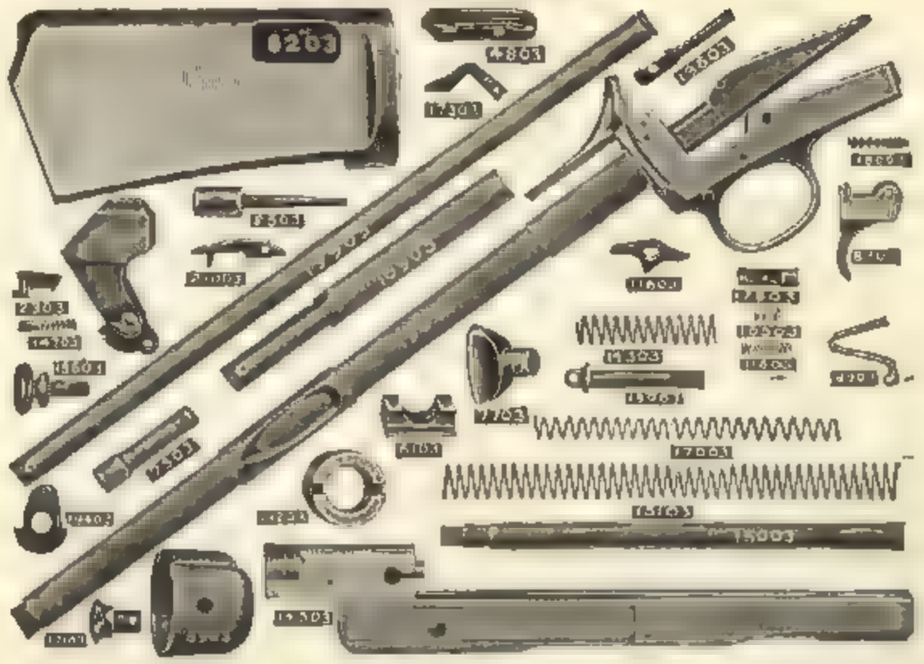

| | | |
|---|---|---|
| 30601 Breech Block | $7 00 | |
| 30102 Breech Block Pin | 10 | |
| 60301 Carrier, Right Hand | 1 10 | |
| 30701 Carrier, Left Hand | 80 | |
| 30601 Carrier Stop Screw | 05 | |
| 30801 Extractor, Right Hand | $0 30 | |
| 2501 Firing Pin | 05 | |
| 21401 Firing Pin Retractor | 25 | |
| 6301 Hammer | 1 40 | |
| 7001 Main Spring | 75 | |
| 7501 Magazine Follower | $0 15 | |
| 7601 Magazine Spring | 15 | |
| 7751 Magazine Plug | 50 | |
| 8801 Receiver | 11 00 | |
| 8901 Trigger Spring | 20 | |

## MODEL 1895



| | | |
|---|---|---|
| 195 | Barrel, Round | $6 50 |
| 295 | Barrel, Round, Nickel Steel, all Calibers except .30 and .303 | 10 00 |
| 795 | Barrel, Round, Nickel Steel .30 and .303 Calibers | 3 00 |
| 395 | Barrel, Octagon | 8 00 |
| 495 | Barrel, Half Octagon | 8 00 |
| 595 | Barrel, Carbine, Nickel Steel | 12 00 |
| 695 | Barrel, Musket | 15 00 |
| 2295 | Breech Bolt, Extractor, and Pin | $3 30 |
| 2395 | Extractor | 25 |
| 2495 | Extractor Pin | 05 |
| 2595 | Firing Pin | 50 |
| 2695 | Firing Pin Lock | 20 |
| 2795 | Firing Pin Recoil Lock | 20 |
| 2835 | Firing Pin Lock and Firing Pin Recoil Lock Pin | 05 |
| 2895 | Firing Pin Lock and Firing Pin Recoil Lock Spring | 05 |
| 2935 | Firing Pin Lock and Firing Pin Recoil Lock Spring Screw | 05 |
| 2195 | Breech Bolt complete | 4 75 |
| 3095 | Butt Stock | 1 80 |
| 3195 | Butt Plate | 90 |
| 3295 | Butt Plate Screws (2), each | 05 |
| 2995 | Butt Stock complete | 4 70 |
| 1395 | Carrier | 75 |
| 1495 | Carrier Screw | 05 |
| 2395 | Carrier Spring | 05 |
| 3895 | Carrier Stop Pin | 05 |
| 2695 | Carrier Cradle | 35 |
| 2795 | Carrier Cradle Pin | 05 |
| 2895 | Carrier Cam Lever | 25 |
| 2935 | Carrier Cam Lever Pin | 05 |
| 1895 | Ejector | 10 |
| 5095 | Ejector Spring | 05 |
| 4795 | Ejector complete | 45 |
| 2795 | Ejector Stop Pin | $0 05 |
| 5295 | Finger Lever | $1 10 |
| 2895 | Finger Lever Lock | 1 00 |
| 2935 | Finger Lever Lock Joint Pin | 10 |
| 2695 | Finger Lever Lock Plunger | 05 |
| 2835 | Finger Lever Lock Plunger Spring | 05 |
| 5195 | Finger Lever complete | 4 80 |
| 2395 | Finger Lever Catch | 25 |
| 2795 | Finger Lever Catch Plunger | 05 |
| 2895 | Finger Lever Catch Plunger Spring | 05 |
| 695 | Finger Lever Pin | 05 |
| 895 | Forearm | $1 35 |
| 1095 | Forearm Stud Screw Escutcheon | 50 |
| 2895 | Forearm complete | 1 45 |
| 1295 | Forearm Stud | 15 |
| 1395 | Forearm Stud Screw | 05 |
| 695 | Hammer | 60 |
| 495 | Hammer Reel | 05 |
| 1795 | Hammer Roll Pin | 05 |
| 695 | Hammer complete | 75 |
| 895 | Hammer Screw | 75 |
| 1395 | Link | 1 00 |
| 795 | Link Pin | 05 |
| 2995 | Locking Bolt with Cartridge Stop and Pins (2) | 30 |
| 795 | Main Spring | 30 |
| 715 | Main Spring Screw | 30 |
| 795 | Main Spring Strain Screw | 05 |
| 3695 | Magazine | 4 00 |
| 2795 | Magazine Tip Screw | 05 |
| 895 | Receiver | 9 50 |
| 1195 | Sear | 25 |
| 1195 | Sear Pin | 05 |
| 1195 | Sear Spring | 10 |
| 1095 | Sear Spring Screw | 05 |
| 895 | Trigger | 25 |
| 895 | Trigger Pin | 05 |
| 995 | Upper Tang Screw | 10 |

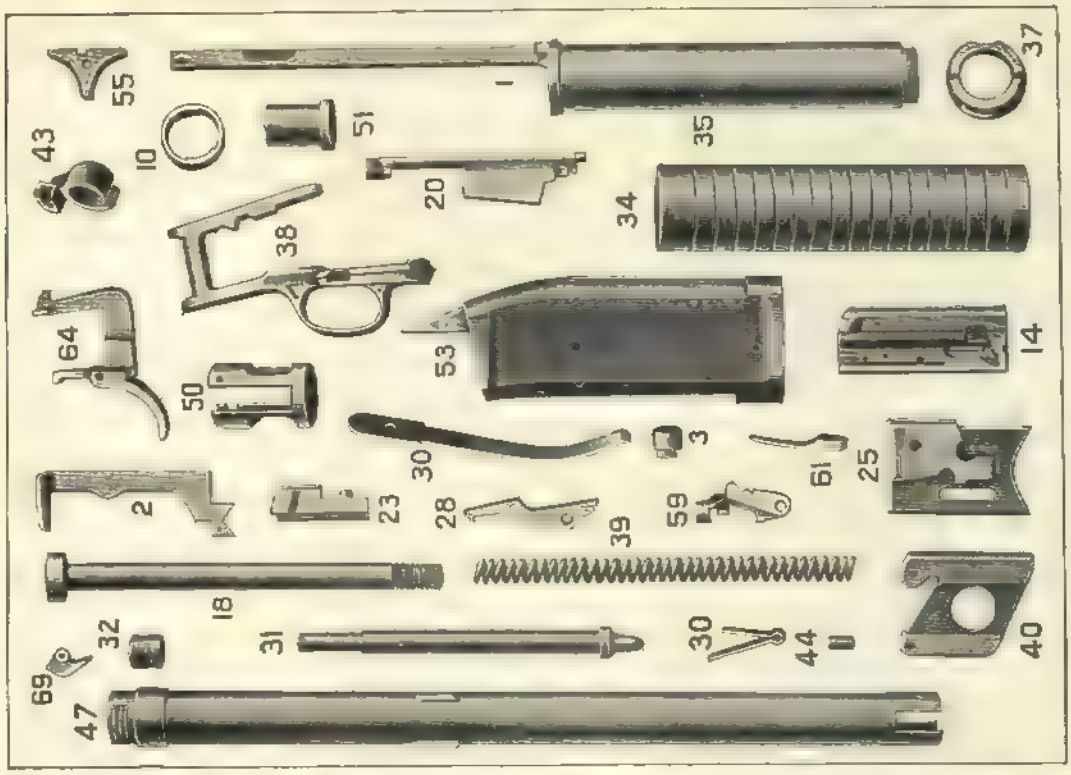
## MODEL 1903



| | | |
|---|---|---|
| 1403 | Barrel | $8 50 |
| 1503 | Bolt | $1 65 |
| 1603 | Bolt Bolt | 05 |
| 2503 | Firing Pin | 65 |
| 2603 | Firing Pin Spring | 05 |
| 2703 | Firing Pin Stop Pin | 05 |
| 2803 | Extractor | 40 |
| 14503 | Extractor Plunger and Spring | 10 |
| 14603 | Extractor Plunger Spring | 05 |
| 14703 | Extractor Plunger Stop Screw | 05 |
| 11303 | Bolt complete | 6 30 |
| 15103 | Bolt Spring | 10 |
| 5003 | Bolt Guide Rod | 25 |
| 3003 | Butt Stock | $9 50 |
| 3103 | Butt Plate | 1 00 |
| 3203 | Butt Plate Screws (2), each | 05 |
| 2903 | Butt Stock complete | 9 00 |
| 1903 | Butt Stock Nut | 15 |
| 1403 | Butt Stock Washer | 05 |
| 20503 | Cartridge Cut-off | 85 |
| 20603 | Cartridge Cut-off Spring | 05 |
| 21103 | Cartridge Cut-off complete | 90 |
| 3003 | Cartridge Cut-off Pin | 05 |
| 3803 | Forearm | 1 00 |
| 5803 | Forearm Tip | 85 |
| 6003 | Forearm Tip Screws (2) each | 15 |
| 6103 | Forearm Tip Tenon | 20 |
| 1083 | Front Sight | 20 |
| 8503 | Hammer | 2 00 |
| 15003 | Hammer Spring Guide Rod | 35 |
| 10003 | Hammer Spring Guide Rod Pin | 05 |
| 13403 | Hammer Pin | 05 |
| 4203 | Hammer Spring | 15 |
| 19503 | Hammer Spring Abutment | 30 |
| 19503 | Hammer Spring Abutment Pin | 15 |
| 10803 | Magazine Tube, Outer, Throat and Tang | 8 00 |
| 7403 | Magazine Tube, Inner | $0 65 |
| 7503 | Magazine Plug | 45 |
| 7603 | Magazine Plug Pin | 05 |
| 7503 | Magazine Spring | 15 |
| 7503 | Magazine Follower | 05 |
| 20003 | Magazine Tube, Inner, complete | $1 35 |
| 6903 | Magazine Friction Spring | 10 |
| 20003 | Magazine Charger complete | 60 |
| 10503 | Operating Sleeve | 70 |
| 17103 | Operating Sleeve Tip | 15 |
| 17503 | Operating Sleeve Tip Pin | 05 |
| 17403 | Operating Sleeve Spring | 20 |
| 16903 | Rear Sight | 55 |
| 5003 | Rear Sight Adjusting Screw | 05 |
| 8703 | Rear Sight complete | 60 |
| 8303 | Receiver | 7 00 |
| 1803 | Ejector | 40 |
| 21103 | Ejector Screw | 05 |
| 15703 | Take Down Screw Bushing | 30 |
| 8503 | Receiver complete | 9 75 |
| 14803 | Sear | 30 |
| 14903 | Sear Spring | 15 |
| 14403 | Take Down Screw | 15 |
| 15803 | Take Down Screw Stop Pin | 05 |
| 21303 | Take Down Screw complete | 30 |
| 17703 | Take Down Screw Lock | 60 |
| 17603 | Take Down Screw Lock Pin | 05 |
| 17803 | Take Down Screw Lock Spring | 15 |
| 20103 | Throat Pin | 35 |
| 8703 | Trigger | 50 |
| 8803 | Trigger Pin | 05 |
| 8903 | Trigger Spring | 10 |
| 17003 | Trigger Lock | 35 |
| 18003 | Trigger Lock Plunger and Spring | 15 |
| 18103 | Trigger Lock Plunger Spring | 05 |
| 24501 | Wiping Rod (Special) | 05 |

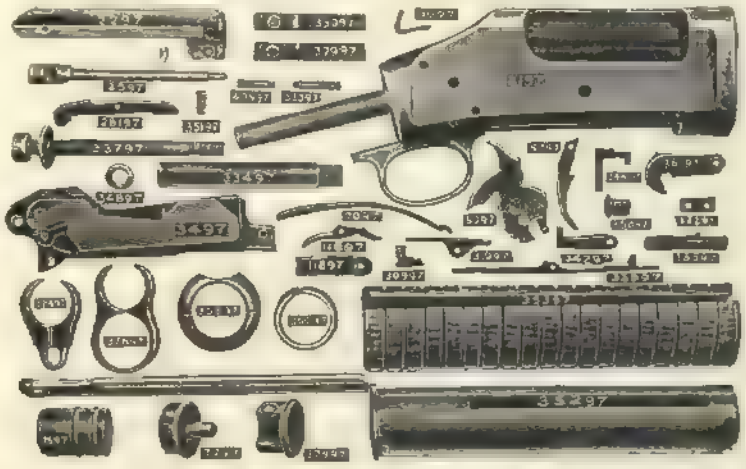
# COMPONENT PARTS

## REMINGTON REPEATING SHOTGUNS—MODEL 1908




| | | |
|---|---|---|
| 1, 35 and 36 | Action Bar complete with Fore-end Tube, Bushing and Rivets | $2 60 |
| 2 | Action Bar Lock | 50 |
| 3 | Action Bar Lock Button | 10 |
| 4 | Action Bar Lock Lock Button Spring | 10 |
| 5 | Action Bar Lock Lock Pin | 10 |
| 7 | Action Bar Stud | 10 |
| 10 | Barrel Adjusting Bushing | 50 |
| 14 | Breech Block | 4 00 |
| 18 | Butt Stock Bolt | 20 |
| 20 | Carrier | 2 00 |
| 23 | Carrier Stop | 20 |
| 24 | Cartridge Stop | 5 |
| 25 | Cocking Head | 1 00 |
| 26 | Cocking Head Pin | 10 |
| 31 | Ejector Spring | 30 |
| 32 | Extractor | 40 |
| 33 | Extractor Pin | 20 |
| 35 | Firing Pin Bushing | 15 |
| 36 | Fore-end | 1 00 |
| 37 | Fore-end Nut | 30 |
| 39 | Main Spring | 25 |
| 40 | Magazine Lever | 20 60 |
| 43 | Barrel Lug | 1 00 |
| 44 | Magazine Lever Detent | 20 |
| 47 | Magazine Tube | 1 25 |
| 50 | Magazine Plug | 40 |
| 51 | Magazine Follower | 10 |
| 53 | Receiver | 10 00 |
| 55 | Safety Slide | 10 |
| 61 | Screw | 50 |
| 64 | Trigger | 1 00 |
| 69 | Trigger Spring | 10 |
| 70 | Tang Screw Check Screw | 1 |

## WINCHESTER MODEL 1897



| | | |
|---|---|---|
| 35297 | Action Slide | $3 0 |
| 35297 | Action Slide Handle | 1 |
| 34997 | Action Slide Spring | 1 |
| 36297 | Action Slide Bolt | 2 |
| 2997 | Firing Pin | 50 |
| 20997 | Extractor, Right Hand | 25 |
| 14797 | Extractor Right Hand | 05 |
| 31097 | Extractor, Left Hand | 30 |
| 3297 | Butt Stock | 3 |
| 197 | Butt Plate | 2 |
| 697 | Hammer with Stirrup and Stirrup Pin | 75 |
| 697 | Sear | 30 |
| 11897 | Sear Spring | 30 |
| 7098 | Main Spring | 30 |
| 3397 | Carrier Complete | 6 35 |
| 897 | Lever Lock Spring | $0 1 |
| 1497 | Magazine Spring | 1 25 |
| 2497 | Magazine Bushing | 60 |
| 2597 | Magazine Plug | 50 |
| 7097 | Magazine Spring | 15 |
| 7597 | Magazine Follower | 10 |
| 3297 | Receiver | 9 00 |
| 8797 | Trigger | 30 |
| 8997 | Trigger Spring | 05 |

# PLUMB BOBS

Half Size No. 2

Half Size, No. 00

## Cast Iron, Japanned

| No. | Weight Each | Per Doz. |
|---|---|---|
| 2 | 3½ ozs. | $3 00 |
| 00 | 1 lb. 2 ozs. | 1 60 |

NO. 2 ONE DOZEN, NO. 00 ONE-HALF DOZEN IN A BOX

Half Size No. 6B

## Cast Brass

| No. | Weight Each | Per Doz. |
|---|---|---|
| 5B — | 6 ozs. | $7 25 |
| 6B— | 11½ ozs. | 10 00 |

ONE-HALF DOZEN IN A BOX

## No. 7777—Standard, Brass

Screw Cap, Removable Steel Point.

| Weight Each | Per Doz. |
|---|---|
| 4 ozs. | $ 7 60 |
| 8 ozs. | 12 60 |
| 12 ozs. | 17 80 |
| 16 ozs. | 22 10 |
| 24 ozs. | 30 60 |

EACH IN A BOX

## Stanley -Adjustable

Bronze Metal, Steel Point.

| No. | Weight Each | Each |
|---|---|---|
| 1 — | 8 ozs. | $1 50 |
| 2A | 13 ozs. | 1 75 |

## Starrett's Mercury

| No. 87—Mercury Plumb Bobs, Length, in | 4 | 5 | 5½ | 6 |
|---|---|---|---|---|
| Diameter, in. | ½ | ⅝ | ⅞ | 1 |
| Weight, oz. | 3½ | 6 | 12 | 16 |
| Each | $1 00 | 1 50 | 2 00 | 2 50 |

EACH IN A BOX

*These Plumb Bobs are made from solid steel, nickel plated, bored and filled with mercury. Noteworthy features are their great weight in proportion to size, low center of gravity, small diameter, hardened and ground points, knurling on the body, and the simple and effective device at top for fastening end of line after winding up. Each is provided with a braided silk line.*

# IRON LEVELS

## STARRETT'S

### No. 135—Pocket

| Length | | Each |
|---|---|---|
| 2½ in | Nickel Plated | $0 40 |
| 3½ in. | Nickel Plated | 50 |

ABOVE ONE-HALF DOZEN IN A BOX

### No. 130—Iron Bench

| Length | Each |
|---|---|
| 3½ in. | $0 40 |

4 and 6 in. 9 and 12 in. 18 and 24 in

### No. 132—Iron Bench

With Double Plumbs; have longitudinal grooves in seat of base, for shafting, etc

| Length | Each | Length | Each |
|---|---|---|---|
| 4 in. | $1 35 | 12 in. | $1 75 |
| 6 in. | 1 50 | 18 in. | 2 00 |
| 9 in. | 1 65 | 24 in. | 2 25 |

Nos. 97 and 98—6 and 8 in.

Nos. 97 and 98—12 in. (18 in. has double plumb)

### No. 97—Improved

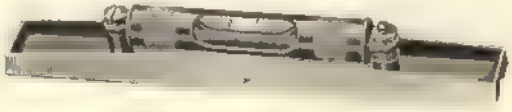
With Plain Vial; has groove for shafting, etc.

| Length | | Each |
|---|---|---|
| 6 in. | Level without Plumb | $1 75 |
| 8 in. | Level without Plumb | 2 00 |
| 12 in | Level with Single Plumb | 2 50 |
| 18 in | Level with Double Plumb | 3 50 |

### No. 98 Improved

With Ground and Graduated Main Vial; has groove for shafting, etc.

| Length | Each |
|---|---|
| 6 in | $4 00 |
| 8 in. | 4 50 |
| 12 in. | 6 00 |
| 18 in. | 8 50 |



### No. 197—Electricians'

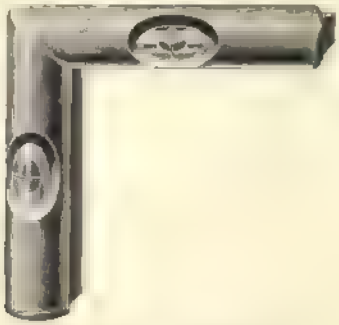
Un Magnetic, with Plain Vial, Bronze Base, Grooved

| Length | Each |
|---|---|
| 8 in. | $2 50 |
| 12 in. | 3 50 |

### No. 133—Engineers and Plumbers'

An Adjustable Incline or Fixed Level and Plumb, with groove in seat of frame

| No. | | Each |
|---|---|---|
| 133A | 10 in. with Plain Glass | $2 75 |
| 133B | 15 in. with Plain Glass | 3 00 |



### No. 136—Cross Test

2 x 3 in. Nickel Plated

Each..... $0 65

### No. 134—Cross Test

2 x 3 x ½ in. Thick. Nickel Plated

Each..... $1 50

ALL ABOVE ONE IN A BOX

SEATTLE HARDWARE COMPANY

# BROAD AXES

Baker Pattern

Hand Forged, Soft Steel Body, Crucible Steel Bit, Gunmetal Finish.

| | | | | |
|---|---|---|---|---|
| Weight each, lbs... | 6 | 6½ | 7 | 7½ |
| Width Cut, in .... | 10½ | 11 | 11½ | 12 |
| Per Doz . .. . | $44 00 | 44 00 | 44 00 | 46 00 |
| Weight each, lbs..... | 8 | 8½ | 9 | |
| Width Cut, in..... | 13 | 13½ | 14 | |
| Per Doz .... .. . . | $46 00 | 48 00 | 48 00 | |

Western Pattern

Hand Forged, Soft Steel Body, Crucible Steel Bit, Gunmetal Finish.

| | | | |
|---|---|---|---|
| Weight each, lbs..... | 6½ | 7 | 7½ |
| Width Cut, in. .. | 11 | 11½ | 12 |
| Per Doz .. . | $44 00 | 44 00 | 46 00 |
| Weight each, lbs..... | 8 | 8½ | 9 |
| Width Cut, in . ..... | 13 | 13½ | 14 |
| Per Doz.... .. . . . . | $46 00 | 48 00 | 48 00 |

ONE-HALF DOZEN IN A CASE

# SHIP BROAD AXES

No. 46—White's

Crucible Cast Steel, Polished Head and Bit, Painted Black, Length 11 inches.

| No. | 1 | 3 | 4 | 5 |
|---|---|---|---|---|
| Width Cut, in. | 6 | 6½ | 6¾ | 7 |
| Weight each, lbs. | 4¾ | 5 | 5¼ | 5½ |
| Per Doz | $36 00 | 36 00 | 36 00 | 36 00 |

ONE-HALF DOZEN IN A CASE

# AXES

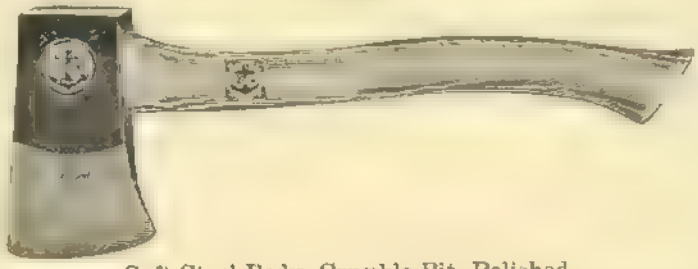
## SCOUT

**With Nail Slot, Solid Cast Steel**

The Scout Axe is a necessity to campers and a handy tool for opening boxes. The slot draws nails straight. With or without sheath. Weight each, including Handle, 21 ounces.

**Scout Axe** With Sheath . . . . . Each, $1 25
**Scout Axe**—Without Sheath. . . . . 1 00

## HOUSE



Soft Steel Body, Crucible Bit, Polished.

**Plumb's House Axe** Weight 3 lbs., Handled with 18 in. Selected White Hickory Handles . . Per Dozen, $15 00

ONE HALF DOZEN IN A BOX. WEIGHT DOZEN, 40 LBS

# HATCHETS

## CAMP OR HUNTERS' HATCHETS

### Plumb's

Solid Cast Steel, Hand Forged, Non-rusting.

| No. | Cut | Weight Doz. | Per Doz. |
|---|---|---|---|
| 00— | 3⅛ in. | 25 lbs. | $ 9 50 |
| 1— | 3¾ in. | 30 lbs. | 10 00 |
| 2— | 4 in. | 38 lbs. | 10 50 |

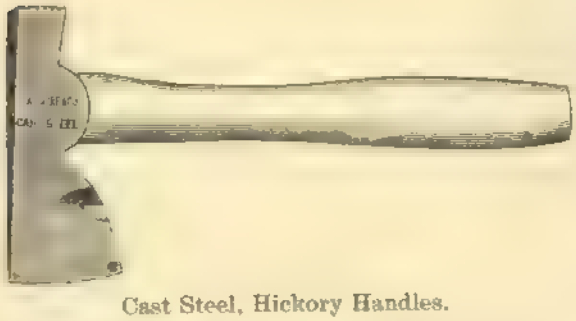
ONE HALF DOZEN IN A BOX

### Occident

Crucible Cast Steel, Ebonite Finish.

| No. | Cut | Weight Doz. | Per Doz. |
|---|---|---|---|
| 00— | 3⅛ in. | 25 lbs. | $ 9 50 |
| 1— | 3¾ in. | 30 lbs. | 10 00 |
| 2— | 4 in. | 38 lbs. | 10 50 |

## BARREL, OR PRODUCE

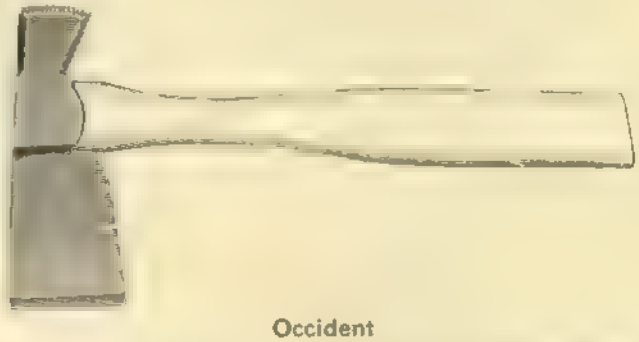


Cast Steel, Hickory Handles.

| No. | | Per Doz. |
|---|---|---|
| 410— | Blue Finish. Weight 11 oz. (not inc. Handle). Length Handle 12 in. | $8 00 |
| 129 - | Full Polished, with Nail Slot in edge of blade. Weight 12 oz. (not including handle) | 10 00 |

ONE-HALF DOZEN IN A BOX. WEIGHT DOZEN, 15 LBS.

## FRUIT BOX



### Occident

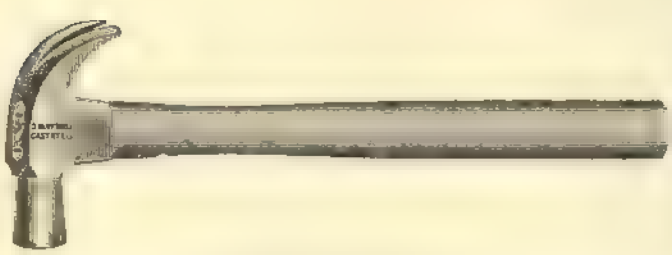
Extra Quality Tool Steel. Full Polished. Hickory Handles

| No. | | Per Doz. |
|---|---|---|
| 401— | Flat Head, Regular Score. Weight 14 oz. (not including Handle) | $15 00 |

ONE-HALF DOZEN IN A BOX. WEIGHT DOZEN, 17 LBS.

# NAIL HAMMERS

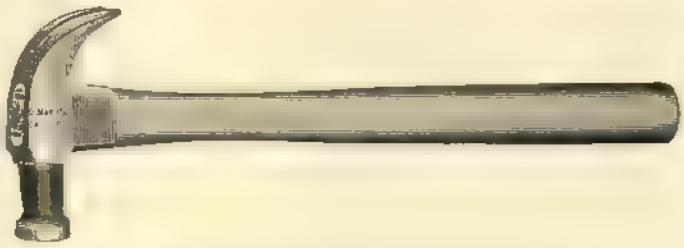
## D. MAYDOLE HAMMER CO.



### Maydole's Adze Eye

Solid Crucible Cast Steel, Polished, Hickory Handles.

| No. | Weight Each Not Inc Hdle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 1 | 20 ozs | 24 lbs | $8 75 |
| 1½ | 16 ozs. | 22 lbs | 8 00 |
| 2 — | 13 ozs | 18 lbs | 7 50 |
| 3 | 7 ozs | 11 lbs | 6 75 |

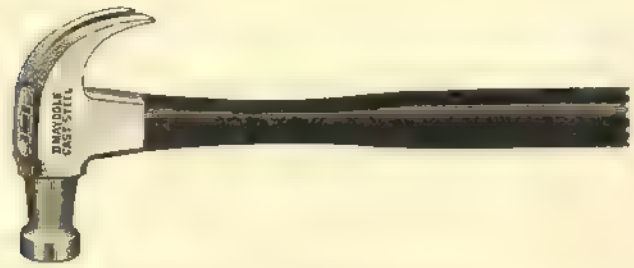


### Maydole's Adze Eye, Bell Face

Solid Crucible Cast Steel, Polished, Hickory Handles.

| No. | Weight Each Not Inc Hdle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 10 | 25 ozs. | 30 lbs. | $11 50 |
| 11 — | 19 ozs | 24 lbs. | 8 75 |
| 11½ | 16 ozs | 22 lbs. | 8 00 |
| 12 | 12 ozs | 18 lbs. | 7 50 |
| 13 | 7 ozs | 11 lbs. | 6 75 |
| 14 | 5 ozs. | 9 lbs | 6 40 |

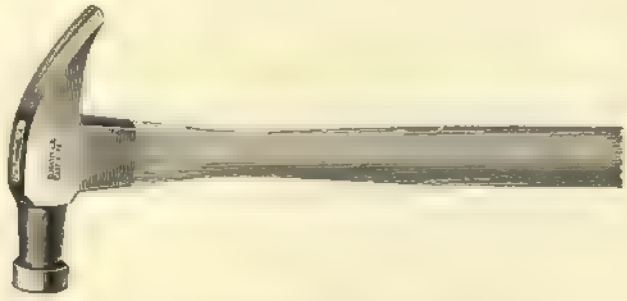
ONE HALF DOZEN IN A BOX



### Maydole's Adze Eye, Bell Face

Solid Crucible Cast Steel, Nickel Plated, Ebonized Handles.

| No. | Weight Each Not Inc Hdle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 611½ | — 16 ozs. | 22 lbs. | $12 75 |
| 612 | — 12 ozs. | 18 lbs. | 12 00 |



### Maydole's Straight Claw, Adze Eye, Bell Face

Solid Crucible Cast Steel, Polished, Hickory Handles

| No. | Weight Each Not Inc Hdle | Weight Doz. Handled | Per Doz. |
|---|---|---|---|
| 711 | — 19 ozs. | 24 lbs. | $8 75 |
| 711½ | — 16 ozs. | 22 lbs. | 8 00 |
| 712 | — 12 ozs. | 18 lbs | 7 50 |

ONE HALF DOZEN IN A BOX

### SHOEMAKERS' HAMMERS

Solid Cast Steel, Hickory Handles

| No. | Per Doz. |
|---|---|
| 455—Size 2, Weight each unhandled 15 oz. | $6 00 |

ONE-HALF DOZEN IN A BOX. WEIGHT DOZEN, 19 LBS

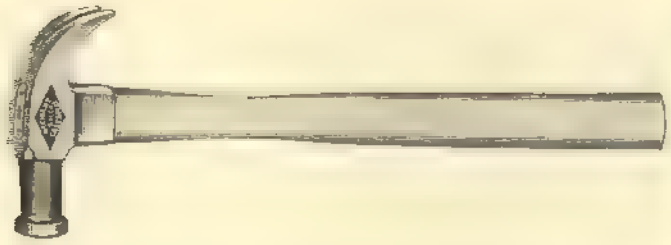
### BILL POSTERS' HAMMERS

Springs for holding card for first tack, Jointed Handle, Nickel-Plated Head and Trimmings.

| No. | Per Doz. |
|---|---|
| 502—5-oz. Head (Magnetic), 36-in. Handle, Two 18-in. Sections | $36 00 |

ONE-SIXTH DOZEN IN A BOX. WEIGHT DOZEN 14 LBS.

# NAIL HAMMERS

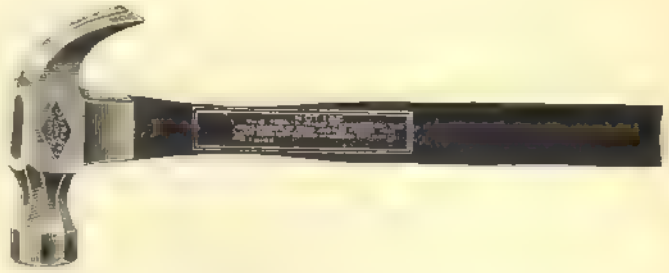


### Occident

Adze Eye, Bell Face, Crucible Cast Steel, Polished, Select Hickory Handles.

| No. | Weight Each Not Inc Hdle | Weight Doz Handled | Per Doz. |
|---|---|---|---|
| 111 | — 20 oz. | 24 lbs. | $8 75 |
| 111½ | — 16 oz. | 22 lbs. | 8 00 |
| 112 | — 13 oz. | 18 lbs. | 7 50 |
| 113 | — 12 oz. | 11 lbs. | 6 75 |

ONE HALF DOZ IN A BOX

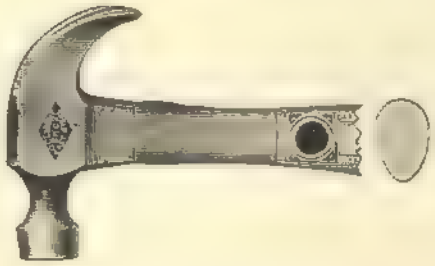


### Occident

Adze Eye, Octagon Neck, Octagon Face, Nickel-Plated Extra Tool Steel, Ebonized Hickory Handles.

| No. | | Per Doz. |
|---|---|---|
| 211½ | —Size 1½; Weight each, not including Handles, 17 oz.; Weight Doz. 23 lbs | $15 00 |

SEATTLE HARDWARE COMPANY

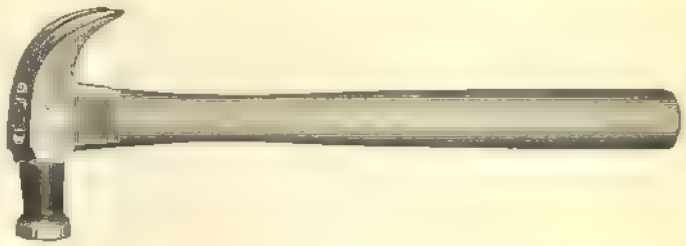


### Occident

Round Neck and Bell Face, extra heavy Claw, "No Tire" Grip, Second-Growth Hickory Handles, Extra Tool Steel, Nickel Plated.

| No. | | Per Doz. |
|---|---|---|
| 311½ | Size 1½; Weight each, not including Handle, 1 lb | $12 00 |

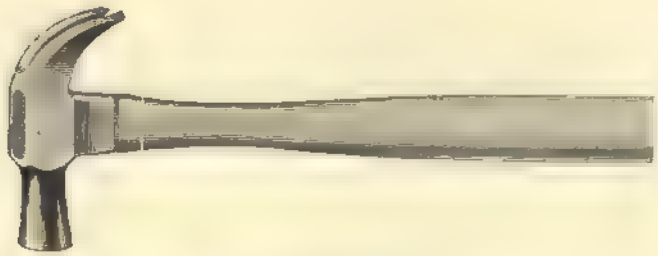
ONE HALF DOZ IN A BOX. WEIGHT DOZ 22 LBS



### Imperial

Solid Cast Steel, Adze Eye, Bell Face, Full Polished, Hickory Handles.

| | | Per Doz. |
|---|---|---|
| **Imperial** | —Size 1½; Weight each, not including Handle, 1 lb | $6 50 |



### Cast Iron

Adze Eye, Full Polished, Hickory Handle

| N | | Per Doz. |
|---|---|---|
| 255 | —Size 1½; Weight, not including Handle, 1 lb | $3 50 |

ONE HALF DOZ IN A BOX WT DOZ 22 LBS.

### Ladies'

A Tack and Claw Hammer combined; Weight each 6 oz., with Handle.

| No. | | Per Doz. |
|---|---|---|
| N260 | —Nickel Plated | $3 00 |

ONE DOZ. IN A BOX. WT DOZ., 8 3-4 LBS

# HALF HATCHETS

OCCIDENT

Solid Cast Steel, Saber Temper, Gun-metal Finish.

| No | Width Cut | Weight Doz | Per Doz. |
|---|---|---|---|
| 2 | 3⅝ in. | 26 lbs | $10 25 |

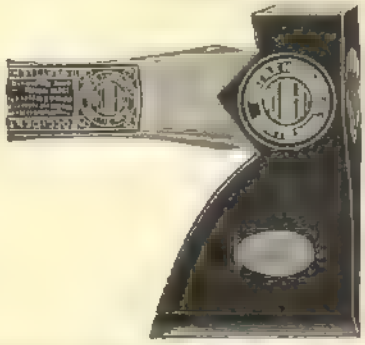
PLUMB'S

Solid Cast Steel, Hand Forged, Non-rusting

| No. | Width Cut | Weight Doz | Per Doz. |
|---|---|---|---|
| 2 | 3⅝ in. | 26 lbs | $10 25 |

# FLOORING HATCHETS

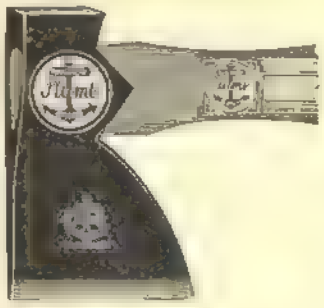
OCCIDENT



Solid Cast Steel, Saber Temper, Gun-metal Finish.

| No | Width Cut | Weight Doz | Per Doz. |
|---|---|---|---|
| 2 | 4⅛ in | 32 lbs | $15 50 |

PLUMB'S



Solid Cast Steel, Hand Forged, Non-rusting.

| No. | Width Cut | Weight Doz | Per Doz |
|---|---|---|---|
| 2 | 4⅛ in. | 32 lbs. | $15 50 |

# BROAD HATCHETS

OCCIDENT

Single Bevel, Solid Cast Steel, Saber Temper, Gun metal Finish

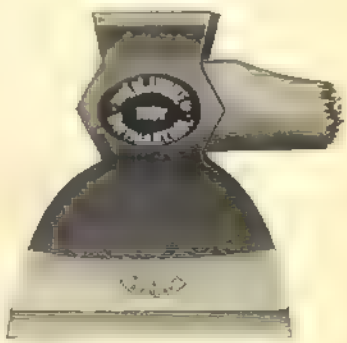
| No | Width Cut | Weight Doz | Per Doz |
|---|---|---|---|
| 1 | 4 in | 29 lbs. | $10 50 |
| 2— | 4½ in | 35 lbs | 11 50 |
| 3 | 5 in | 40 lbs | 13 00 |
| 4— | 5½ in | 45 lbs | 14 50 |
| 5 | 6 in | 50 lbs | 16 50 |
| 6— | 6½ in | 54 lbs. | 18 00 |

PLUMB'S

Single Bevel, Solid Cast Steel, Hand Forged, Non-rusting

| No | Width Cut | Weight Doz | Per Doz |
|---|---|---|---|
| 1 | 4 in | 29 lbs. | $10 50 |
| 2 | 4½ in. | 35 lbs | 11 50 |
| 3 | 5 in | 40 lbs | 13 00 |
| 4— | 5½ in | 45 lbs | 14 50 |
| 5 | 6 in | 50 lbs | 16 50 |
| 6— | 6½ in. | 54 lbs | 18 00 |

WHITE'S



**No. 27—Single Bevel**

Crucible Cast Steel, Polished Head and Bit.

| No | Width Cut | Weight Each | Per Doz |
|---|---|---|---|
| 6 | 5 in | 2½ lbs | $19 50 |
| 5 | 5½ in | 3 lbs | 21 00 |
| 4 | 6 in | 3½ lbs | 22 50 |
| 3 | 6½ in | 4 lbs | 24 00 |
| 2 | 7 in | 4½ lbs. | 27 00 |

ALL ABOVE ONE HALF DOZEN IN A BOX

# ADZES

## WHITE'S SHIP

Plain Ship

Lipped Ship

Soft Steel Body, Cast-Steel Polished Bit, Black Finish.

| | Per Doz |
|---|---|
| **No. 44**—4 to 4¼ in. Cut. | $30 00 |
| **No. 44**—4½ to 5 in Cut | 33 00 |

Soft-Steel Body, Cast-Steel Polished Bit, Black Finish

| | Per Doz |
|---|---|
| **No. 45**—4 to 4¼ in. Cut | $33 00 |
| **No. 45**—4½ to 5 in. Cut | 36 00 |

ONE DOZEN IN A CASE AVERAGE WEIGHT DOZ., 55 LBS

## OCCIDENT

No. 840—Half Head House

No. 850—Full-Head House

No. 860—Full-Head Railroad

No. 880—Ship Carpenter's, Plain

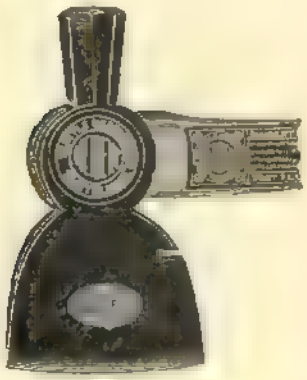
Soft Steel Body, High-Grade Crucible Steel Bit and Head. Solid-Punched Eye, Ebonite Finish, Saber Temper.

| No. | | Per Doz |
|---|---|---|
| **840—Half-Head House** | Width of Cut 3½ to 4½ in., Weight Doz. 60 lbs. | $24 00 |
| **850—Full-Head House** | Width of Cut 3½ to 4½ in., Weight Doz. 65 lbs. | 24 00 |
| **860—Full-Head Railroad** | Width of Cut 5, 5¼ and 5½ in., Weight Doz. 65 lbs. | 26 00 |
| | Width of Cut 5¾ and 6 in., Weight Doz. 70 lbs. | 27 00 |
| **880—Ship Carpenter's, Plain** | Width of Cut 4 to 4½ in., Weight Doz. 55 lbs. | 30 00 |

ONE HALF DOZEN IN A CASE

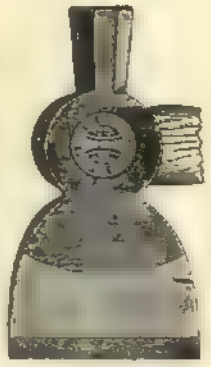
# SHINGLING HATCHETS

OCCIDENT



PLUMB'S

IMPERIAL



### Occident

Solid Cast Steel, Saber Temper, Gun metal Finish.

| No | Width Cut | Weight Doz | Per Doz. |
|---|---|---|---|
| 1 | 3½ in. | 22 lbs | $8 00 |
| 2 | 4 in. | 28 lbs. | 8 50 |
| 3 | 4½ in | 31 lbs. | 9 00 |

### Plumb's

Solid Cast Steel, Hand Forged, Non rusting.

| No. | Width Cut | Weight Doz. | Per Doz |
|---|---|---|---|
| 1— | 3½ in. | 22 lbs. | $8 00 |
| 2— | 4 in. | 28 lbs. | 8 50 |
| 3— | 4½ in. | 31 lbs. | 9 00 |

### Imperial

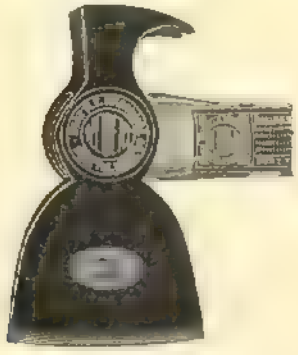
Cast Steel, Natural Finish, Tempered

| No. | Width Cut | Weight Doz. | Per Doz |
|---|---|---|---|
| 1— | 3½ in. | 22 lbs. | $8 00 |
| 2— | 4 in. | 28 lbs | 8 50 |
| 3— | 4½ in. | 31 lbs. | 9 00 |

ONE-HALF DOZEN IN A BOX

# CLAW HATCHETS

OCCIDENT



PLUMB'S

IMPERIAL

### Occident

Solid Cast Steel, Saber Temper Gun metal Finish

| No. | Width Cut. | Weight Doz. | Per Doz. |
|---|---|---|---|
| 1— | 3½ in. | 25 lbs. | $9 00 |
| 2— | 4 in. | 30 lbs. | 9 50 |
| 3— | 4½ in. | 35 lbs. | 10 00 |

### Plumb's

Solid Cast Steel, Hand Forged, Non-Rusting

| No. | Width Cut | Weight Doz. | Per Doz. |
|---|---|---|---|
| 1— | 3½ in. | 25 lbs. | $9 00 |
| 2— | 4 in. | 30 lbs. | 9 50 |
| 3— | 4½ in. | 35 lbs. | 10 00 |

### Imperial

Cast Steel, Natural Finish, Tempered.

| No | Width Cut | Weight Doz. | Per Doz |
|---|---|---|---|
| 1 | 3½ in. | 25 lbs. | $9 00 |
| 2 | 4 in. | 30 lbs. | 9 50 |
| 3— | 4½ in. | 35 lbs. | 10 00 |

ONE-HALF DOZEN IN A BOX

# LATHING HATCHETS

## UNDERHILL'S BOSTON

### Chicago Pattern

Solid Cast Steel, Full Polished, Milled Head

| No. | | Per Doz. |
|---|---|---|
| **40** | 81 Points. 2¼-in Cut Weight without Handle, 15 oz | $22.00 |

ONE-HALF DOZEN IN A BOX.

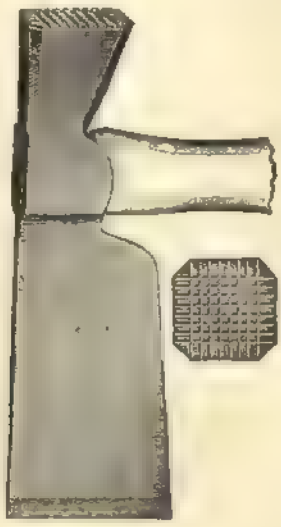
### St. Louis Pattern

Solid Cast Steel, Full Polished, Milled Head.

| No. | | Per Doz. |
|---|---|---|
| **41** | 100 Points. 2⅛ in Cut Weight without Handle, 16 oz | $27 50 |

WEIGHT DOZEN, 18 LBS

## UNDERHILL PATTERN

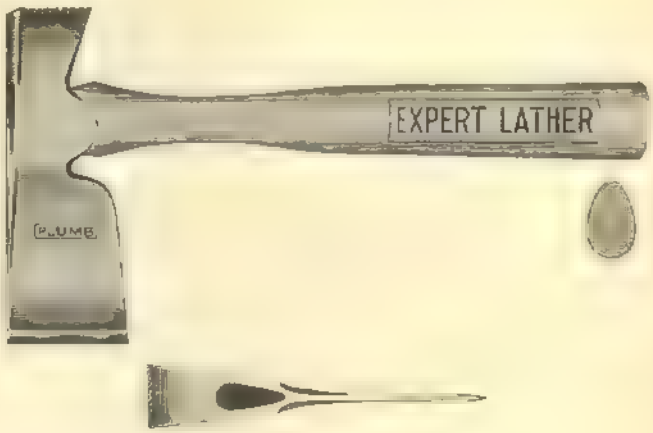


### Chicago Pattern

Solid Tool Steel, Full Polish, Thin Blade.

| No. | | Per Doz. |
|---|---|---|
| **040** | 81 Points, Scored Head, 2⅛-in Cut Weight without Handle, 15 oz | $14 00 |

## PLUMB'S EXPERT




Strengthened at the weakest point where it swells into the poll. Poll slightly concaved at side so that the lath can be cut with edge of poll.

| No. | | Per Dozen |
|---|---|---|
| **545** | 100 Points. 2⅛ in cut Square Head Weight (not including handle) 20 oz Full Polished Mirror Finish, Solid Tool Steel. No-Tire Handle | $21 00 |

ONE-HALF DOZEN IN A BOX

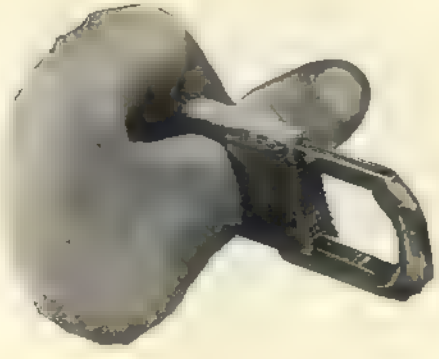
# POLICE EQUIPMENTS

## BEANS' IMPROVED HANDCUFFS

**No. 1**—Beans', Polished . . . . . Per Pair, $5 00
**No. 2**—Beans', Nickel Plated . . . . . " 5 75
Weight, 14 oz

*These handcuffs are made to meet the demand for a handcuff combining quality with lightness. It is finely finished. Can be unlocked from either side. The lock can be removed when cuff is open. When closed the lock cannot be taken out, nor can cuff be unlocked by accident or without key.*

## TOWER'S THUMBCUFF



**No. 3**—Thumbcuff, will fit any size Thumb, Locks Automatically, Opens with Key . . . . . Per Pair, $5 00
Weight, 6 oz

*This thumbcuff is desirable especially for detectives' use, as it can be carried in the vest pocket. When closed on the prisoner's thumb below the knuckles, both hands together, telescoping tightly, it cannot be slipped off, and renders the hands useless. It locks automatically and opens with a key. Will fit any size thumb.*

## TOWER'S PERFECT TWISTERS

**No. 1**—Nickel-Plated Twisters . . . . . Each, $1 50
Weight, 3 oz.

*The advantage of this twister is in the interlocking of the handles. When in use, the two handles lay one within the other, closing automatically. As the slot in the open handle is open alike on both sides, they can be used instantly without care as to which side lays in the hand. The lightest and best chain twister ever made.*

## THOMAS' AUTOMATIC POLICE NIPPERS

**No. 4**—Nickel-Plated Nippers . . . . . Each, $2 50
Weight, 7 oz.

*Self-closing and self-locking. A slight pressure on the projecting button seen under the handle opens the nipper. Putting them on the wrist brings the projecting center piece in contact with the arm; a slight pressure carries it down flush and automatically closes and locks the nippers.*

## LEININGER'S PATENT SHACKLE

**No. 1**—Leininger's Shackle, Nickel Plated . . . . . Each, $11 00
Weight, 11 lbs.

**No. 2**—Leininger's Shackle, Nickel Plated . . . . . Each, $12 00
Weight, 15 lbs.

# HOLSTERS

HEISER

No. 184

No. 126

**No. 184** Pouch made of medium weight Russet Leather. The back is doubled and lined with Calfskin. Shoulder Strap made of soft Sweat-Proof Leather. For 32 and 38 Colt's Police Positive and 38 Caliber 5 or 7-in. Colt's Officer's Model. ..... Each, $3 80

**No. 126** Safety Spring Shoulder Holster. **No. 1** in cut shows Spring. **No. 2** in cut shows Leather Flap. The most practical Shoulder Holster made. For 32 and 38-Caliber 4, 4½ or 6-in. barrel Colt's Army Special or Police Positive, and for 32 Savage Automatic or 32 Colt's Automatic ..... Each, 4 50

**Always Specify Model, Caliber and Length of Barrel of Revolver for which Holster is wanted.**

# CARTRIDGE BELTS

HEISER

**No. 37** 2 inches wide, Oak Tanned Russet Leather. Buckles Riveted, has 24 ¾ inch Cartridge Loops, Wire Stitched to Belt. All plain finish, unlined. For 30, 32 and 38 Calibers all lengths ..... Each, $2 25

**No. 70**—2½ inches wide, and has a Calfskin Lining; a Billet 1½ x 8 inches long and Gun metal Belt Buckle are hand Buckskin stitched to belt. has 30 ¾ inch wide Cartridge Loops, Wire Stitched to upper part of Belt leaving the inside of Belt smooth. For 30, 32 and 38 Calibers. ..... Each, $3 80

**No. 75**—2½ inches wide, made of Double Leather, Seamless Pattern, has 36 ⅞-inch wide Cartridge Loops hand sewed to Belt. The 1½-inch by 10-inch Billet is hand sewed to Belt through both thicknesses of leather, Nickel Buckle. For 30, 32 and 38 Calibers ..... Each, $6 00

SEATTLE HARDWARE COMPANY

# POLICE EQUIPMENTS

## TOWER'S LEG IRONS

| | | |
|---|---|---|
| No. 50—Polished. | Per Pair. | $6 00 |
| No. 51—Nickel | " | 7 00 |

*The improved security afforded by the double lock is of greater importance on the leg iron than on the handcuffs; the lock being the same as handcuff, it cannot be picked or forced*

## TOWER'S BALL AND CHAIN

Patent Double Lock, Single Leg Irons, with Ball and Chain Attached.

| | | |
|---|---|---|
| No. 1—12 lbs | Each, | $5 00 |
| No. 4—22 " | " | 5 75 |

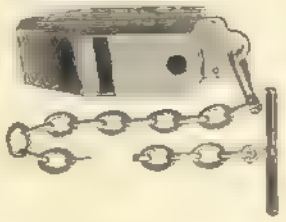
## BEAN'S FLEXIBLE CLUBS

| | | |
|---|---|---|
| No. 10—Bean's Patent Flexible Police Club, 10 in. | Per Dozen, | $21 00 |
| No. 12—Bean's Patent Flexible Police Club, 12 " | " | 24 00 |

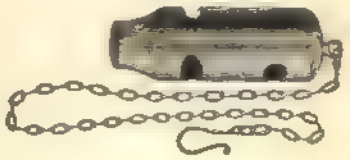
*This club is made of sole leather, over elastic steel spring wires, handle of neatly braided leather swivel secured to end.*

## WHISTLES

Duplex



Unique

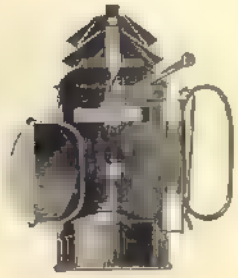


Bean's Patent

| | | |
|---|---|---|
| **Duplex**—With Chain | Per Dozen, | $3 00 |
| **Unique**—Loud Tone, Nickel Plated | " | 9 00 |
| **Bean's**—Nickel Plated, with Chain | " | 12 00 |

# LANTERNS

## POLICE AND SPORTSMEN'S



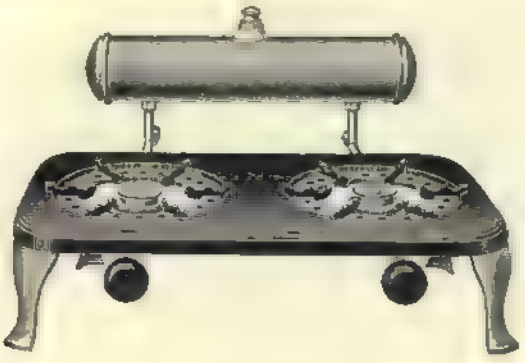
No. 2F

| | | | |
|---|---|---|---|
| No. 2 | —3-in. Bull's-Eye, Japanned Tin Frame | Per Dozen, | $ 7 50 |
| No. 2F | —3 " Bull's-Eye, Japanned Tin Frame, with Flash Attachment | " | 18 00 |
| No. 111 | —3 " Bull's-Eye, Nickel Plated Brass Frame | " | 48 00 |

SEATTLE HARDWARE COMPANY

# ALCOHOL STOVES

MANNING, BOWMAN & CO.



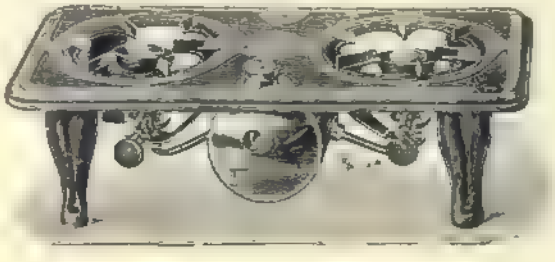
| No. | | Each |
|---|---|---|
| 58 | Nickel Plated, with Wrought Iron Stand. Diameter of Top 6½ in. Will burn three hours without refilling. Weight Each, 5 lbs . | $3 50 |
| 173 | —Size Top, 20x10½ in A powerful cook-stove for camping, picnic, yachting, outside use and light housekeeping. Wt Each, 25 lbs . . | $14 00 |
| 1735 | —With Guard Rail. Otherwise same as No. 173. For boat use. Wt. Each, 30 lbs..... | 17 00 |

EACH IN A BOX

# PRIMUS WICKLESS STOVES

To light with lamp oil, roarer pattern. Burns ordinary kerosene lamp oil.

| No. | | Each |
|---|---|---|
| 100 P | —Polished Brass, Height 8 in ; Capacity of Oil Tank 1¾ Pints. Wt Each, 3½ lbs ... .. | $8 00 |



**Wickless Primus Duplex Range**

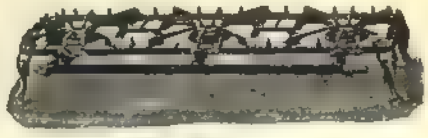
Practical, light, handy and strong. Burns ordinary kerosene lamp oil.

| No. | | Each |
|---|---|---|
| 512 | Size Top 9¼x20 in , Height 5¾ in , Burns Ordinary Kerosene Oil. Has Primus Burner with Regulating Valve. Weight 7¾ lbs..... | $15 00 |

# GAS HOT PLATES

No. 47E

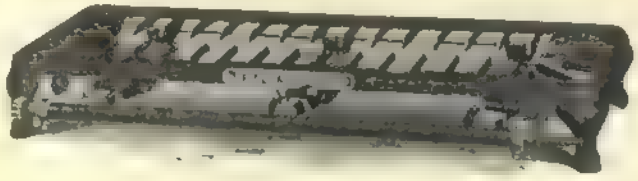
No. 48E



No. 49E

**No. 47E**—One Burner, Width 8 in., Length 5 in., Height 5 in., Weight Crated 5 lbs.. . . . . Each, $1 80
**No. 48E**—Two Burners Width 8 in., Length 19 in., Height 5 in., Weight Crated 10 lbs . . . . . " 3 00
**No. 49E**—Three Burners, Width 8 in., Length 29 in., Height 5 in., Weight Crated 15 lbs.. . . . . " 4 50

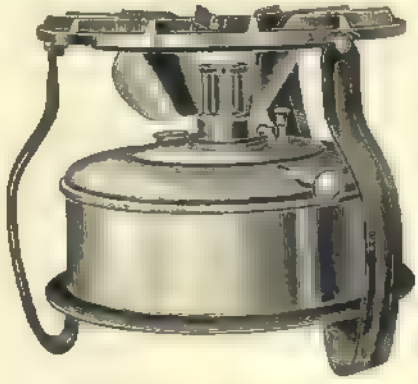
**No. 48H**- Two Burners, Width 11 in., Length 21 in., Height 4½ in., Weight Crated 24 lbs . . Each, $5 00



**No. 49H**—Three Burners, Width 16 in., Length 31 in., Height 4½ in., Weight Crated 33 lbs . . . . . Each, $7 00

# ALCOHOL STOVES

## UNIVERSAL DENATURED



The flame from these stoves is absolutely sootless, smokeless and oderless.

**No. 10**— One Burner, Height 5½ in., Diameter 6⅝ in., Weight Each 3 lbs. . . . . Each, $4 25

**No. 11**—One Burner, Height 11 in., Diameter 8 in., Weight Each 6 lbs. . . . . Each, $5 00

SEATTLE HARDWARE COMPANY

# PUNCHES

## SADDLERS' OR BELT

Full Size of Round Holes

### Standard, Polished Steel

| Sizes | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter of Hole, in. | .08 | .09 | .011 | .012 | .013 | .015 | .017 | .021 | .024 | .028 | .035 |
| No. 100—Per Dozen | $2 00 | 2 00 | 2 00 | 2 00 | 2 00 | 2 00 | 2 25 | 2 25 | 2 25 | 2 50 | 2 50 |

KNURLED BELT PUNCH

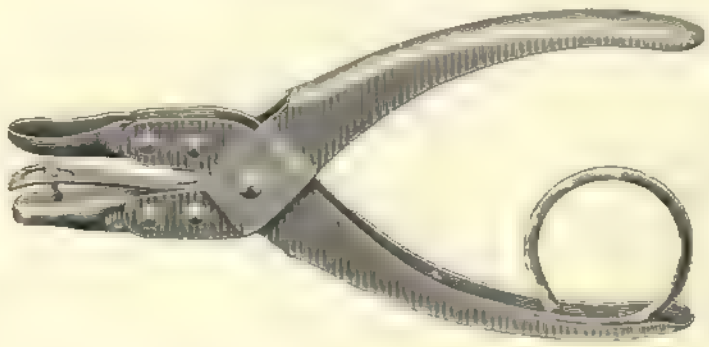
Full Size of Oval Holes

### Special Quality, Knurled and Blued, Cast Steel, Round and Oval

| Sizes | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 19—Round | Per Dozen, | $4 00 | 4 00 | 4 00 | 4 00 | 4 00 | 4 50 | 4 50 | 4 50 | 5 00 | 5 00 |
| No. 13—Oval | " | .... | .... | .... | .... | 5 75 | 5 75 | 5 75 | 5 75 | 5 75 | .... |

ONE DOZEN IN A BOX

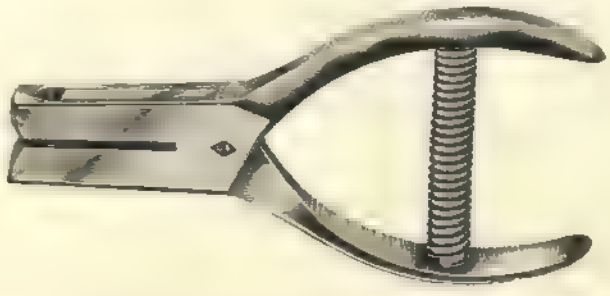
## CONDUCTORS'



### All Steel, Nickel Plated

No. 11 Assorted Dies. Weight per Dozen, 2 lbs.....Per Dozen, $6 00

ONE HALF DOZEN IN A BOX



### Climax Euchre, Steel, Nickel Plated

No. 3000—Assorted Designs. Weight per Dozen, 4 lbs.....Per Dozen, $12 00

ONE TWELFTH DOZEN IN A BOX

# DYNAMITE

### Nitro-Glycerin

⅞ x 8-in. and 1¼ x 8-in. Sticks.

| Strength | 20% | 30% | 35% | 40% | 60% |
|---|---|---|---|---|---|
| Per 100 Pounds.. $ | .... | .... | .... | .... | .... |

*Packed 25 and 50 pounds in a box. For 10-pound boxes add 50c extra per 100 pounds.*

### Low-Freezing Nitro-Glycerin

⅞ x 8-in. and 1¼ x 8-in. Sticks.

| Strength | 20% | 30% | 35% | 40% | 60% |
|---|---|---|---|---|---|
| Per 100 Pounds.. $ | .... | .... | .... | .... | .... |

### Ammonia Dynamite

⅞ x 8 in. and 1¼ x 8-in. Sticks

| Strength | 20% | 30% | 35% | 40% | 60% |
|---|---|---|---|---|---|
| Per 100 Pounds $ | .... | .... | .... | .... | .... |

*Packed 25 and 50 pounds in a box. For 10-pound boxes add 50c extra per 100 pounds.*

### Low-Freezing Ammonia Dynamite

⅞ x 8-in. and 1¼ x 8-in. Sticks.

| Strength | 20% | 30% | 35% | 40% | 60% |
|---|---|---|---|---|---|
| Per 100 Pounds.. $ | | | | | |

### PERMISSIBLE POWDERS

For use in gaseous and dusty coal mines.

### Monobel

1¼ x 8-in. Sticks.

| No. | 1 | 2 | 3 |
|---|---|---|---|
| Per 100 Pounds ... $ | | | |

TEN 5-POUND CARTONS IN A 50-POUND BOX

### Monobel Low-Freezing

1¼ x 8-in. Sticks.

| No. | 4LF | 5LF | 6LF |
|---|---|---|---|
| Per 100 Pounds.. $ | | | |

# STUMPING POWDERS

**DuPont 20% Stumping Powder**—1⅜ x 8 in. ..... Per Pound, $..

**Repauno Stumping Powder**—20% Strength, 1⅜ x 8 in. .

FIFTY POUNDS IN A BOX

*NOTE—In ordering Dynamite always specify size of sticks. ⅞ x 8 in. is generally used for hand drills and 1¼ x 8 in. is generally used for machine drilling.*

# BLACK BLASTING POWDER

| Grains, No. | F | FF | FFF |
|---|---|---|---|
| Per Keg (25 pounds) ... $ | | | |

### DU PONT ELECTRIC EXPLODERS

Double Strength

| Length, Feet | 4 | 6 | 8 | 10 |
|---|---|---|---|---|
| Per 100 $ | .... | .... | .... | .... |

FIFTY IN A BOX

*Can be furnished in lengths up to 30 feet.*

### BLASTING CAPS

| No. | 5 | 6 | 7 | 8 |
|---|---|---|---|---|
| Per 100 $ | .... | .... | .... | .... |

ONE HUNDRED IN A TIN BOX, 500, 1,000, 2,000, 3,000 OR 5,000 IN A CASE

# BLASTING SUPPLIES

## FUSE

### Cotton, Warranted Waterproof

| | Per 1,000 Feet |
|---|---|
| **Double Tape**—Weight per Case, 121 lbs. | $ |
| **Triple Tape**—Weight per Case, 117 lbs. | |

### Gutta Percha, Warranted Waterproof

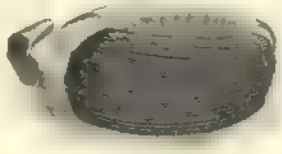
| | Per 1,000 Feet |
|---|---|
| **Bear**—Weight per Case, 120 lbs | $ |
| **Victor**—Weight per Case, 121 lbs | |

6,000 FEET IN A CASE AND 3,000 FEET IN A HALF CASE

## CONNECTING WIRE

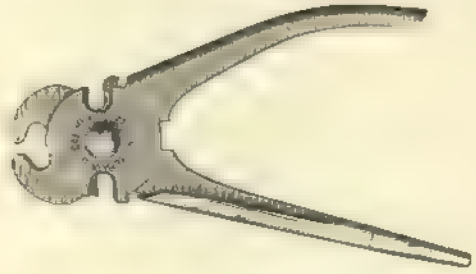
| No. | Per Pound |
|---|---|
| **21**—Copper, on 1 and 2-lb. Spools | $0 80 |

## LEADING WIRE AND TAPE



**Single Leading Wire**—Copper, Insulated, per ft., $0 02
**Duplex Leading Wire**—Copper, Insulated, per ft., 02½
**Insulating Tape**—½-lb. Packages. . . Each, 80

## FUSE CUTTER AND CAP CRIMPER



### Gold Medal, Nickel Plated

**No. 5**—Length 5½ in., Weight per Dozen, 5 lbs., . . . . . Per Dozen, $6 00

ONE-HALF DOZEN IN A BOX

## BLASTING BATTERIES

### Push Down

| Nos | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Capacity, Caps | 5 | 10 | 30 | 50 | 100 |
| Gross Weight, lbs | 10 | 20 | 30 | 50 | 68 |
| Net Weight, lbs | 6 | 15 | 25 | 45 | 53 |
| Each | $9 00 | 15 00 | 22 50 | 45 00 | 67 50 |

*The maximum capacity indicates the number of electric blasting caps the blasting machines will fire when using two posts and two leading wires. When three posts and three leading wires are used, the maximum capacity is increased 50 per cent.*

*Nos. 1, 2 and 5 are with two posts only.*

*No. 3 is two-post but can be furnished three-post.*

*No. 4 is three-post but can be furnished two-post when so ordered.*

## KELLY POWDER-HEATER OR THAWER

**No. 1**—Size 10 x 10 x 14 in., holds 40 sticks of ⅞ in. dynamite . . . . Each, $6 75
**No. 2**—Size 10 x 14 x 16 in., holds 72 sticks of ⅞ in. dynamite . . . . " 8 25

*The Kelly Powder Heater consists of a box of heavy galvanized steel lined with asbestos, a pan with a screw cap fitting in the bottom of this box, and over that a wire rack which holds each stick of power away from any other.*

*To use, remove the screw cap, fill pan with water, place on forge or fire until the water boils, screw the cap on, replace pan in bottom of box, fill wire rack with powder, set in box over pan, cover box, and in two hours or less every stick is evenly and safely heated WITHOUT DRAWING THE NITROGLYCERIN TO THE WRAPPER as is done with other methods. This is the result of a perfectly even AND SLOWLY DECREASING heat. The asbestos insulation holds the heat for 2½ to 3 hours and it can never rise to the danger point. Powder heated in the Kelly Heater retains its original strength and is from twenty to fifty per cent more efficient than when heated by the ordinary methods. We are the exclusive Manufacturers and Distributors for the entire Northwest including Alaska.*

# SHOTGUNS

## REMINGTON—AUTO-LOADING

### Model IIA—Standard Grade

Remington steel barrel, walnut stock, pistol grip, matted receiver, rubber butt, 5 shots, take-down

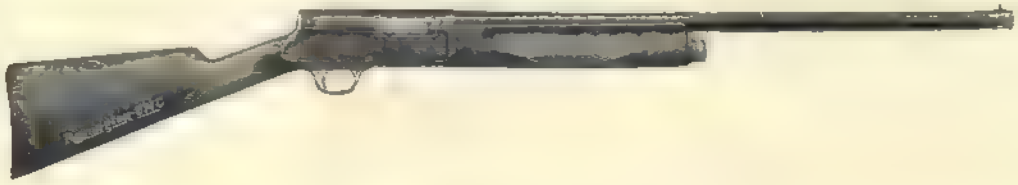
**No. 121A** —12 Gauge, 28-inch Barrel ..... Each, $40 00
**No. 121A-MR**—12 Gauge, 28-inch Barrel, Matted Rib ..... " 45 00

### Model IIB—Special Grade

Remington steel barrel, selected English walnut stock, pistol grip and fore-end checkered, matted receiver, rubber butt, 5 shots, take-down.

**No. 122A** —12 Gauge, 28-inch Barrel ..... Each, $50 00
**No. 122A-MR**—12 Gauge, 28-inch Barrel, Matted Rib ..... " 55 00

*2½-inch drop at heel, 1⅞ at comb, stock 14 and 14¼ inches. Any deviation will be subject to an advance in price.*



### Model IIC—Trap Grade

Remington steel barrel, selected English walnut stock, checkered straight grip and fore end, matted receiver, rubber butt, 5 shots, take-down.

**No. 123A** —12 Gauge, 28-inch Barrel ..... Each, $50 00
**No. 123A-MR**—12 Gauge, 28-inch Barrel, Matted Rib ..... " 55 00

### Model IID—Tournament Grade

Remington steel barrel, fine English walnut stock, checkered pistol grip and fore end, matted receiver, rubber butt, 5 shots, take-down.

**No. 124A** —12 Gauge, 28-inch Barrel ..... Each, $70 00
**No. 124A-MR**—12 Gauge, 28-inch Barrel, Matted Rib ..... " 75 00

### Model IIE—Expert Grade

Remington steel barrel, best English walnut stock, checkered pistol grip and fore end, matted receiver, rubber butt, 5 shots, elaborately engraved, take-down.

**No. 125A** —12 Gauge, 28-inch Barrel ..... Each, $100 00
**No. 125A-MR**—12 Gauge, 28-inch Barrel, Matted Rib ..... " 105 00

### Model IIF—Premier Grade

Remington steel barrel, Circassian walnut stock, checkered pistol grip and fore-end, matted receiver, rubber butt, 5 shots, elaborately engraved, take-down.

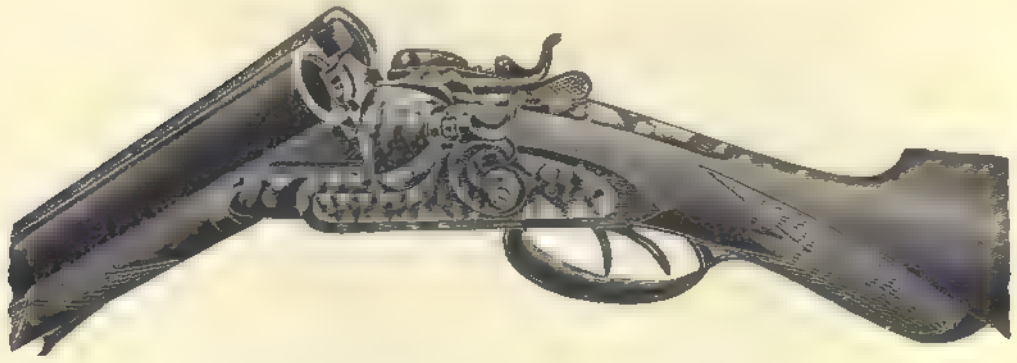
**No. 126A** —12 Gauge, 28-inch Barrel ..... Each, $150 00
**No. 126A-MR**—12 Gauge, 28-inch Barrel ..... " 155 00

*Nos. 124A, 125A, 126A grades furnished with straight grip stock without additional charge.*
*2½-inch drop at heel, 1⅞ inch at comb, stocks 14 and 14⅜ inches. Any deviation will be subject to advance in price.*

ALL ABOVE GUNS WEIGH ABOUT 7 3-4 LBS

# SHOTGUNS

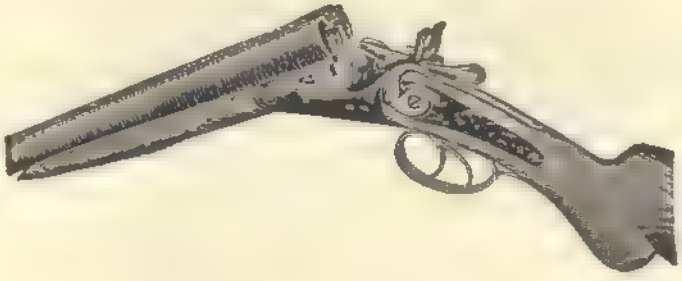
## NEW AMERICA—DOUBLE BARREL. HAMMER



Genuine armory steel barrels, choke bored, matted rib, full pistol grip with rubber cap, selected black walnut stock, rubber butt plate, D & E fore end, low circular hammers, case hardened drop forged frame, double cross bolts, bar locks, best steel parts; compensating action; will not shoot loose.

| | |
|---|---|
| **No. 12NA**—12 Gauge, 30-in. Barrels. Wt. 7 to 8 lbs. | Each, $20 00 |
| **No. 16NA**—16 Gauge, 28-in Barrels. Wt 6¾ to 7¼ lbs | " 20 00 |
| **No. 20NA**—20 Gauge, "Featherweight," 28 in. Barrels.. | " 21 00 |

## AMERICAN—DOUBLE BARREL. HAMMER

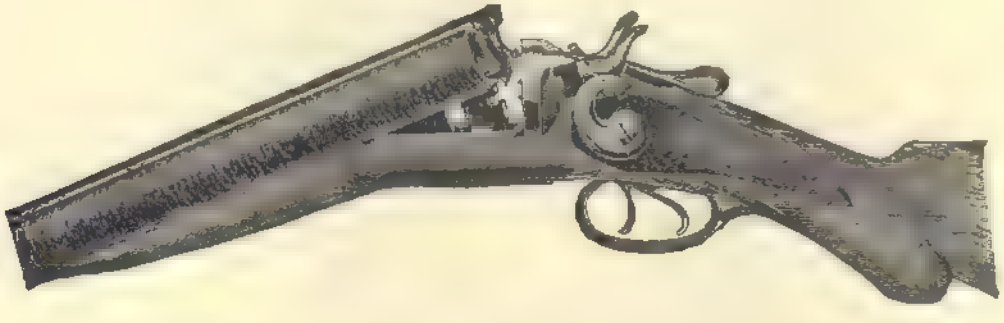


Taxidermist or Ladies'

Genuine twist barrels, extension rib, pistol grip, top lever, back-action locks

| | |
|---|---|
| **No. 44XL**—Shoots 44XL or 44 W. C. F., 26-in. Barrels | Each, $18 00 |
| **No. 28XL**—Shoots 28-Gauge Shell, 26-in. Barrels | " 18 00 |

## BELGIAN—DOUBLE BARREL. HAMMER



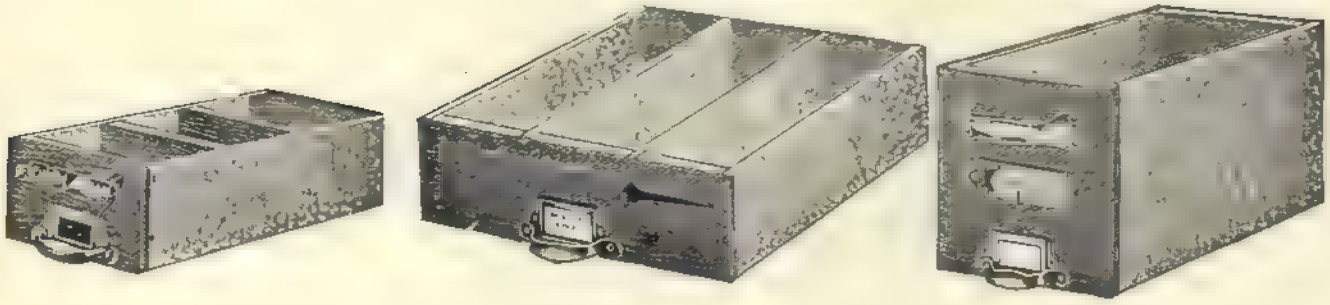
Imitation twist barrels, back-action rebounding locks, extension rib, pistol grip, rubber butt.

| | |
|---|---|
| **No. 1050**—10 Gauge, 30-in. Barrels. | Each, $17 00 |
| **No. 1250**—12 Gauge, 30-in. Barrels... | " 17 00 |
| **No. 1650**—16 Gauge, 30-in. Barrels. | " 17 00 |

SEATTLE HARDWARE COMPANY

# SHELF BOXES

## RIVERSIDE GALVANIZED STEEL



No. 102 No. 107 No. 601

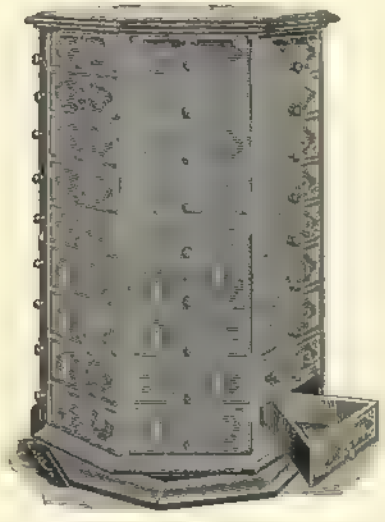
These boxes have oak fronts and pine backs. The sides and bottoms are pressed of one piece of rolled galvanized steel. Fronts are filed and varnished in golden oak, with bronze pull and card-holder.

| No. | Width | Depth | Length | Wt. Each | Each |
|---|---|---|---|---|---|
| 100— | 3 in. | 3 in. | 12 in. | 1 lb. | $0 30 |
| 101— | 4 in. | 3 in. | 12 in. | 1 lb. | 31 |
| 103— | 6 in. | 3 in. | 12 in. | 1¼ lb. | 34 |
| 125— | 3 in. | 3 in. | 14 in. | 1 lb. | 36 |
| 126— | 4 in. | 3 in. | 14 in. | 1⅛ lb. | 37 |
| 128— | 6 in. | 3 in. | 14 in. | 1⅜ lb. | 40 |
| 400— | 4 in. | 4 in. | 12 in. | 1¼ lb. | 34 |
| 402— | 6 in. | 4 in. | 12 in. | 1½ lb. | 38 |
| 404— | 8 in. | 4 in. | 12 in. | 1⅝ lbs. | $0 44 |
| 425— | 4 in. | 4 in. | 14 in. | 1⅝ lbs. | 40 |
| 427— | 6 in. | 4 in. | 14 in. | 1⅞ lbs. | 46 |
| 429— | 8 in. | 4 in. | 14 in. | 1⅞ lbs. | 54 |
| 601— | 6 in. | 6 in. | 12 in. | 2¼ lbs. | 52 |
| 603— | 8 in. | 6 in. | 12 in. | 2½ lbs. | 60 |
| 626— | 6 in. | 6 in. | 14 in. | 2½ lbs. | 62 |
| 628— | 8 in. | 6 in. | 14 in. | 2¾ lbs. | 72 |

*The above are only a few of the numerous sizes that can be furnished from factory. Send for catalogue.*

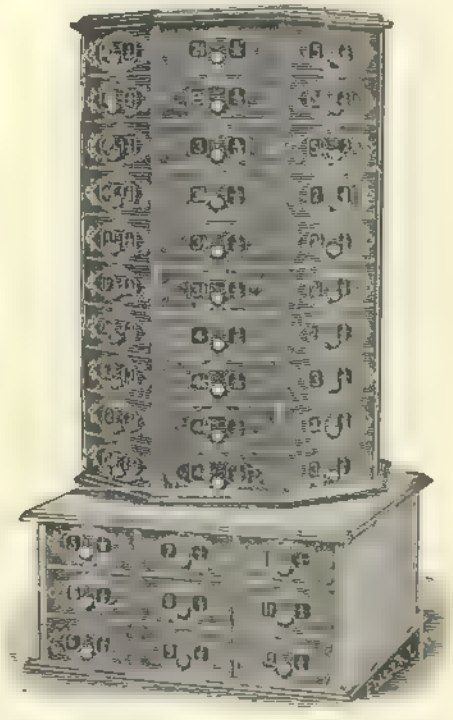
# BOLT AND SCREW CASES

## REVOLVING



Screw—Poplar Wood, Cherry Stained

| Nos. | 10 | 12 | 14 | 16 |
|---|---|---|---|---|
| Height, in. | 33 | 36 | 39 | 42 |
| Width, in. | 21 | 21 | 24 | 24 |
| Number of Drawers | 72 | 80 | 88 | 96 |
| Each | $33 00 | 37 50 | 42 00 | 46 00 |



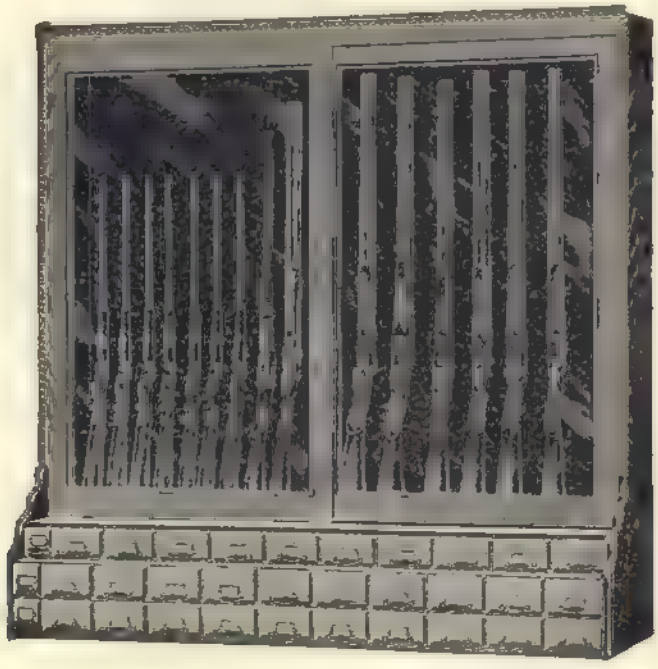
Bolt Poplar Wood, Cherry Stained

**No. 1**— 98 Drawers, 60 inches High, 30 inches Wide.....Each, $65 30

**No. 2**—104 Drawers, 65 inches High, 30 inches Wide. Each, $71 30

ENTIRE PAGE FACTORY SHIPMENT ONLY

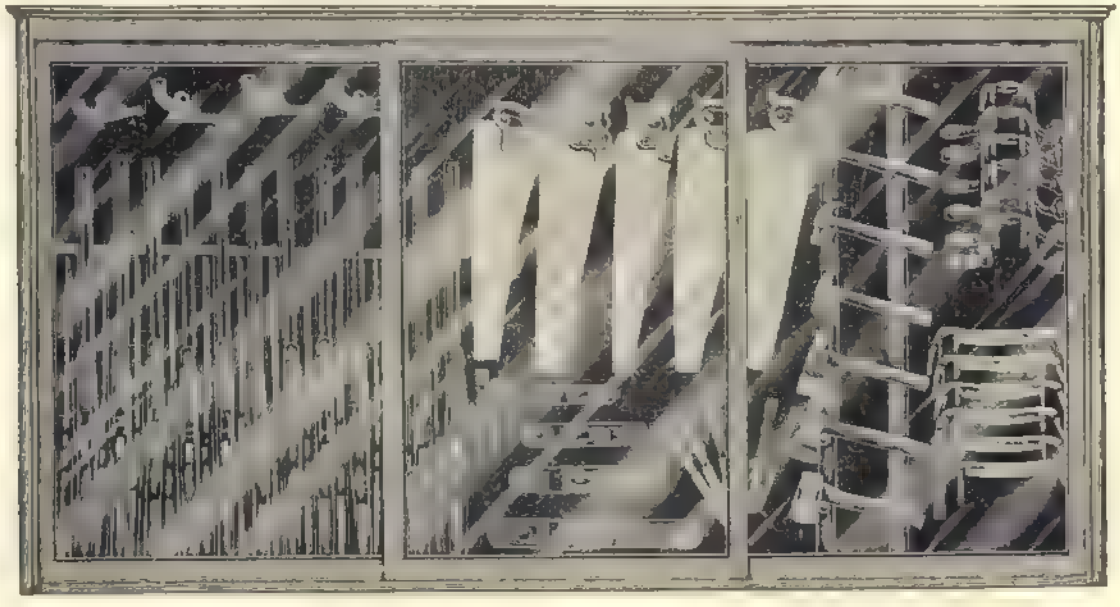
# RIVERSIDE CABINETS



**No. 9—Cabinet**

An elegant oak case; has glass doors on ball-bearing rollers. With 53 felt-lined drawers in base for cartridges and gun supplies.

**No. 9** Height 63 in., Width 64 in., Depth at top 12 in., Depth at base 20 in. Shipping weight about 300 lbs. Each, $45 00



**No. 150 Wall Show Case**

Made of quarter sawed oak, paneled and beaded; sliding glass doors, ball bearings. Inside lined with green felt. Complete with brackets or shelves as desired. Specially designed to show guns, rifles, sporting goods, tools, etc. Height 63 in., Depth 14 in., outside measure. Shipping weight, 25 lbs. per running foot.

**No. 150**—With Brackets only.....Per Running Foot, $5 00
**No. 155**—With Shelves only..... " " " 6 00

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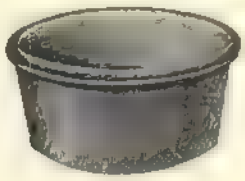
SEATTLE HARDWARE COMPANY

# WOOD FIBRE WARE

## SPITTOONS



**No. 225** Indurated Wood Fibre, Diameter, 11 in. Weight per Dozen, 40 lbs. .....Per Dozen, $9 75
**No. 226** Indurated Wood Fibre, Diameter, $9\frac{1}{2}$ in. Weight per Dozen, 30 lbs ..... " 8 00

## WATER PAILS

Star

**No. 131**—12 Quart, Indurated Fibre, $9\frac{1}{4}$x$11\frac{3}{4}$ in
Weight per Doz., 44 lbs.....Per Dozen, $4 50

## FIRE PAILS

Round Bottom

**No. 157** 12 Quart, Indurated Fibre, $11\frac{3}{4}$x$11\frac{1}{4}$ in
Weight per Doz., 55 lbs.....Per Dozen, $9 50

# CEDAR PAILS

No. 02

No. 03

**No. 02**—12 Quart, 2 Hoop Cedar Weight per Dozen, 34 lbs . Per Dozen, $3 50
**No. 03**—12 Quart, 3-Hoop Cedar. Weight per Dozen, 36 lbs..... " 4 50

# WELL BUCKET

No. 30

Well Bucket

**No. 30** Long Strap, Galvanized Hoop, Twist Bail Weight per Dozen, 100 lbs Per Dozen, $16 00

# RIFLES

## SAVAGE—MODEL 1899. TAKE-DOWN

Straight stock, box magazine, 6 shots.

| | | | |
|---|---|---|---|
| **No. 2599TD** | .25-35 Caliber, 26 in. Round Barrel | Each, | $25 00 |
| **No. 3099TD** | .30-30 Caliber, 26 " Round Barrel | " | 25 00 |
| **No. 30399TD** | .303 Caliber, 26 " Round Barrel | " | 25 00 |
| **No. 3299TD** | 32-40 Caliber, 26 " Round Barrel | " | 25 00 |
| **No. 3899TD** | .38-55 Caliber, 26 " Round Barrel | " | 25 00 |

Weight 7¾ lbs.

## SAVAGE MODEL 1899, FEATHER-WEIGHT

Solid frame, straight stock, box magazine, 6 shots.

| | | | |
|---|---|---|---|
| **No. 2599F** | —25-35 Caliber, 20-in. Round Barrel | Each, | $25 00 |
| **No. 3099F** | —30-30 Caliber, 20 " Round Barrel | " | 25 00 |
| **No. 30399F** | —303 Caliber, 20 " Round Barrel | " | 25 00 |

Weight, 6 lbs.

### Take-Down

| | | | |
|---|---|---|---|
| **No. 2599FTD** | —25-35 Caliber, 20-in. Barrel | Each, | $30 00 |
| **No. 3099FTD** | —30-30 Caliber, 20 " Barrel | " | 30 00 |
| **No. 30399FTD** | —303 Caliber, 20 " Barrel | " | 30 00 |

## SAVAGE—MODEL 1899. HI-POWER, FEATHERWEIGHT

### Take-Down

The 22 Savage Hi Power Rifle is the lightest high-power rifle made It is a hammerless, 6 shot repeater, and is built with the Savage strong and durable take down feature. This is the simplest and most convenient ever devised in a high-power rifle.

| | | | |
|---|---|---|---|
| **No. 2299FTD** | —22 Caliber, Shoots 22 Hi Power Cartridges, 20 in. Round Barrel | Each, | $30 00 |

# RIFLES

## SAVAGE—MODEL 1914

### Hammerless, Take-Down, Tubular Magazine, Repeating

**No. 2214STD**—22 Caliber, 24-in. Octagon Barrel, Shotgun Full Pistol Grip, with Steel Butt Plate. Chambered for 22-Short, Long and Long Rifle Cartridges. Wt., 5¾ lbs. ..... Each, $12 00

## SAVAGE—MODEL 1903

### Hammerless, Take-Down, Repeating

**No. 2203STD** 22 Caliber, Chambered for Short, Long and Long Rifle Cartridges, 24 in. Octagon Barrel, Pistol Grip, Rifle Butt-Plate. Weight 5¼ lbs. ..... Each, $14 00

Extra—Magazines ..... " 30

## SAVAGE—MODEL 1899. REPEATING

### RIFLES

Solid frame, straight stock, box magazine, 6 shots.

| | | | | |
|---|---|---|---|---|
| **No. 2599** | 25-35 Caliber, 26-in. | Round Barrel, Weight 7½ lbs. ..... | Each, | $20 00 |
| **No. 02599** | 25-35 Caliber, 26 " | Octagon Barrel, Weight 7 lbs ..... | " | 21 50 |
| **No. 12599** | 25-35 Caliber, 26 " | Half-Octagon Barrel, Weight 7¾ lbs. ..... | " | 21 50 |
| **No. 3099** | 30-30 Caliber, 26 " | Round Barrel, Weight 7½ lbs. ..... | " | 20 00 |
| **No. 03099** | 30-30 Caliber, 26 " | Octagon Barrel, Weight 8 lbs ..... | " | 21 50 |
| **No. 13099** | 30-30 Caliber, 26 " | Half Octagon Barrel, Weight 7¾ lbs ..... | " | 21 50 |
| **No. 30399**—303 | Caliber, 26 " | Round Barrel, Weight 7½ lbs ..... | " | 20 00 |
| **No. 030399** | 303 Caliber, 26 " | Octagon Barrel, Weight 8 lbs ..... | " | 21 50 |
| **No. 130399** | 303 Caliber, 26 " | Half Octagon Barrel, Weight 7¾ lbs ..... | " | 21 50 |
| **No. 3299** | 32-40 Caliber, 26 " | Round Barrel, Weight 7½ lbs. ..... | " | 20 00 |
| **No. 03299** | 32-40 Caliber, 26 " | Octagon Barrel, Weight 8 lbs ..... | " | 21 50 |
| **No. 13299** | 32-40 Caliber, 26 " | Half-Octagon Barrel, Weight 7¾ lbs ..... | " | 21 50 |
| **No. 3899** | 38-55 Caliber, 26 " | Round Barrel, Weight 7½ lbs ..... | " | 20 00 |
| **No. 03899** | 38-55 Caliber, 26 " | Octagon Barrel, Weight 8 lbs ..... | " | 21 50 |
| **No. 13899**—38-55 | Caliber, 26 " | Half-Octagon Barrel, Weight 7¾ lbs. ..... | " | 21 50 |

### CARBINES

| | | | | |
|---|---|---|---|---|
| **No. 2599C**—25-35 | Caliber, 20-in. | Round Barrel ..... | Each, | $20 00 |
| **No. 3099C** | 30-30 Caliber, 20 " | Round Barrel ..... | " | 20 00 |
| **No. 30399C** | -303 Caliber, 20 " | Round Barrel ..... | " | 20 00 |
| **No. 3299C** | 32-40 Caliber, 20 " | Round Barrel ..... | " | 20 00 |
| **No. 3899C** | 38-55 Caliber, 20 " | Round Barrel ..... | " | 20 00 |

Weight 7¼ lbs.

### SADDLE GUNS

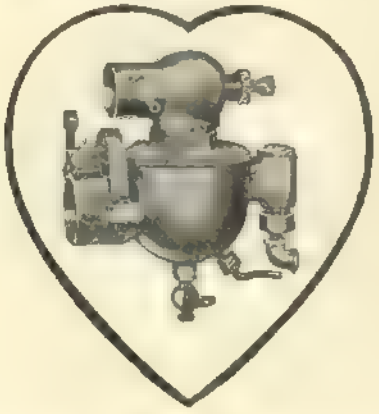
| | | | | |
|---|---|---|---|---|
| **No. 2599S**—25-35 | Caliber, 22-in. | Round Barrel ..... | Each, | $20 00 |
| **No. 3099S**—30-30 | Caliber, 22 " | Round Barrel ..... | " | 20 00 |
| **No. 30399S**—303 | Caliber, 22 " | Round Barrel ..... | " | 20 00 |

Weight 7¼ lbs.

SEATTLE HARDWARE COMPANY

# GAS ENGINE SUPPLIES

## SCHEBLER CARBURETOR



Model D

Owing to design of these carburetors, they occupy very little space, provide a uniform mixture of gas and air at different engine speeds. Made of brass

| | | | | | |
|---|---|---|---|---|---|
| **Model D** | ¾ | 1 | 1¼ | 1½ | 2 |
| Each | $15 00 | 16 00 | 17 00 | 25 00 | 50 00 |

*In ordering state size, also number of cylinders.*

## PFANSTIEHL MARINE DASH COILS

No. 25

No. 28

These coils are equipped with a cover for the vibrators and high-tension terminal insulators, and are adapted for use in exposed places. They combine the advantages of a dash coil with a marine coil price.

| | | |
|---|---|---|
| **No. 25** | 1 Cylinder | Each, $ 6 50 |
| **No. 26** | 2 Cylinder | " 13 00 |
| **No. 27** | 3 Cylinder | " 17 00 |
| **No. 28** | 4 Cylinder | " 25 00 |

*Cases are of selected, highly polished oak.*

## QUICK-ACTION SPARK COIL

No. 124 and 144—Primary or Make and Break

| | | |
|---|---|---|
| **No. 124** | Six-inch Coil, Core 1⅛-inch Norway Wire, Copper Windings, 12 Layers of No. 14 Wire | Each, $3 75 |
| **No. 144** | Six-inch Coil, Core 1⅛ inch Norway Wire, Copper Windings, 14 Layers of No. 14 Wire | " 4 00 |

Requires only a small amount of current to make a thick, powerful and hot flame, insuring an explosion every time

## WIZARD TUBULAR MAGNETOS

| | | |
|---|---|---|
| **Type B** | Make and Break Spark, for One Cylinder Engine, Length, 10 in., Width, 6 in. Height, 7 in. Weight Each, 13 lbs | Each, $10 00 |
| **Type A** | Make and Break Spark, for Multiple Cylinder Engine; Length, 10 in.; Width, 6 in.; Height, 7½ in. Weight Each, 16 lbs | Each, 12 00 |
| **Type R** | —Jump Spark, for One-Cylinder Engine; Length, 10 in., Width, 6 in.; Height, 8 in. Weight Each 18¾ lbs | Each, 12 00 |
| **Type HK** | —Jump Spark, for Multiple Cylinder Engine, Length, 12 in.; Width, 6 in.; Height, 8 in. Weight Each, 24½ lbs | Each, 15 00 |

# GAS ENGINE SUPPLIES

## BATTERY SWITCHES

Cut Shows Single Throw

### Single Throw

Solid brass contacts, copper lever, composition base. Size of base, 2½x1x⅝ in.

**No. 3**—Quick Action.....Each, $0 50

### Double Throw

Solid non breakable base, insulated handle, instantaneous throw. Height, ¾ in.

**No. 4**—Quick Action.....Each, $1 00

## BATTERY CONNECTORS

**Bulldog**.....Per Dozen, $1 00
**Columbia**..... " 50
**Quick Action**..... " 50

## TERMINALS

### Herz's

**Size, ½ in.**.....Per Dozen, $2 00

### Eveready

**Primary and Secondary**.....Per Dozen, $...

## AMMETERS, VOLT AMMETERS AND VOLT METERS

### Eveready

Hand-Calibrated Metal Dials, Pocket Style.

| No. | | Each |
|---|---|---|
| **1002** | —Ammeter, 0 to 35 Amperes | $1 50 |
| **1003** | Volt Ammeter, 0 to 35 Amperes and 0 to 14 Volts | 2 00 |
| **1005** | —Volt Meter, 0 to 10 Volts | 1 75 |

### Read-Rite

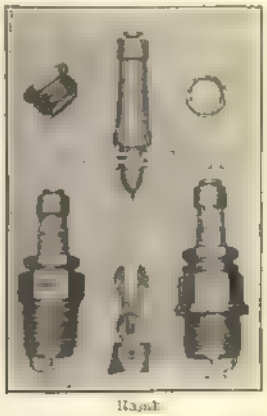
Metal Discs, Pocket Style.

| No. | | Each |
|---|---|---|
| **1** | —Ammeter, 0 to 30 Amperes | $1 50 |
| **3** | —Volt Ammeter, 0 to 30 Amperes and 0 to 12 Volts | 2 00 |
| **5** | —Volt Meter, 0 to 12 Volts | 1 75 |

## SPARK PLUGS

Rex

Bougie Mercedes



Rajah

**Rex** ½-in Standard, Guaranteed Perfect.....Each, $1 50
**Bougie Mercedes** ½ in. Standard, Guaranteed for One Year..... " 1 50
**Reflex** ½ in. Standard, Porcelain, Guaranteed Perfect..... " 1 50
**Rajah** ½ in. Standard, Clip Terminal Attachment..... " 1 50

### Extra Porcelains and Gaskets

Extra Porcelains for Rajah Spark Plug.....Each, $0 70
Extra Porcelains for Rex Spark Plug..... " 60

SEATTLE HARDWARE COMPANY

# SHIP CHANDLERY

## BINNACLE LIGHTS

Nos. 41 and 42

Nos. 1, 2 and 3

No. 22

### Brass Binnacle Lights

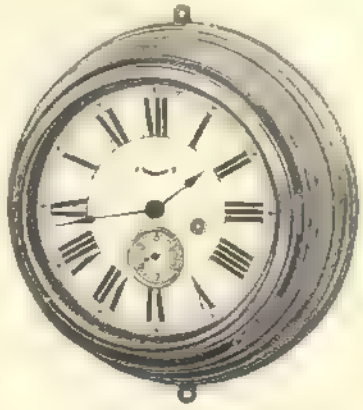
| | | | |
|---|---|---|---|
| **No. 41**—Front 5x5½ in., No. 1 One Tube Lard Oil Burner. Weight Each Net, 1½ lbs..... | . | Each, | $5 25 |
| **No. 42**—Front 6x7 " No. 1 Two Tube Lard Oil Burner. Weight Each Net, 2 " | . | " | 6 00 |

### Binnacles—Round, Polished Brass, with One and Two Lamps

| | | | | |
|---|---|---|---|---|
| Nos | 1 | 2 | 3 | 22 |
| For Liquid Compass, in | 2 | 3 | 4 | 3 |
| Lamps | 1 | 1 | 1 | 2 |
| Weight Each, lbs | 1¼ | 2¾ | 3 | 3½ |
| Each | $9 00 | 15 00 | 18 00 | 18 00 |

## CLOCKS

Ship's Bell, Lever



Engine Room

### SHIP'S BELL, LEVER

**Nickel Plated**

**No. 6**—One Day, 6 in. Dial, Striking "Eight Bells." Weight Each, 5 lbs... ..... Each, $13 50

### ENGINE ROOM

**Nickel Plated**

| | | |
|---|---|---|
| **No. 16**—One Day, 6 in. Dial, Time. Weight Each, 2½ lbs. | Each, | $6 50 |
| **No. 86**—Eight Day, 6 in. Dial, Time. Weight Each, 4 lbs.. | " | 13 75 |
| **No. 88**—Eight Day, 8-in. Dial, Time. Weight Each, 4½ lbs.. | " | 16 50 |

SEATTLE HARDWARE COMPANY

# MARINE COMPASSES

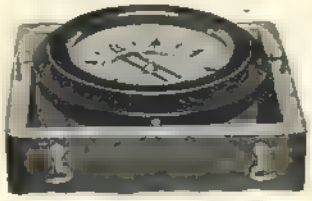
## DIRIGO BINNACLES

This Binnacle is fitted with the Dirigo Electric Compass Light, or with oil lamps. They are made of genuine mahogany; of heavy stock and fastened with brass screws. The light may be turned on or off by simply inserting or removing the plug

| Nos. | 0 | 01 | 1 | 2 | 3 |
|---|---|---|---|---|---|
| To fit Compass, in. | 2 | 2½ | 3 | 4 | 5 |
| Weight Each, lbs. | 1¾ | 2¾ | 4 | 6 | 8 |
| Each (either oil or electric lighted) | $5 00 | 8 00 | 10 00 | 12 00 | 15 00 |

For both oil and electrically lighted add each $2 00

## DIRIGO COMPASS



The Dirigo is an oil compass with cast bronze bowl, flexible diaphragm, navy degree circle, jewel bearing, hardened steel pivot. Is made with the utmost care and precision and is without doubt the finest instrument that time and money can produce. Will last a lifetime

| Size of Dial, in. | 2 | 2½ | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Size of Box, in. | 4½ | 5 | 5½ | 7¼ | 8½ |
| Weight Each, lbs. | 1½ | 2½ | 3½ | 6 | 8¼ |
| Each | $6 50 | 9 50 | 16 00 | 20 00 | 25 00 |

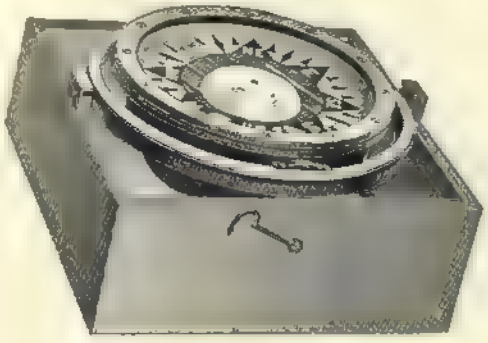
Sizes 2½ and 3 with degree circle

## DRY

### Dry, Wood Case

| No. | Card, Inch. | Glass, Inch. | Ring, Inch. | Box, Inch. | Weight Each, Lbs. | Each |
|---|---|---|---|---|---|---|
| 14½ | 2¼ | 2⅜ | 3½ | 4½ | 1 | $3 50 |
| 15 | 2¾ | 2⅞ | 3½ | 5 | 1¼ | 4 50 |
| 16 | 3 | 3¼ | 4¾ | 6 | 1½ | 5 75 |
| 17 | 4½ | 4¾ | 5⅝ | 7 | 2½ | 6 75 |

## RICHIE'S



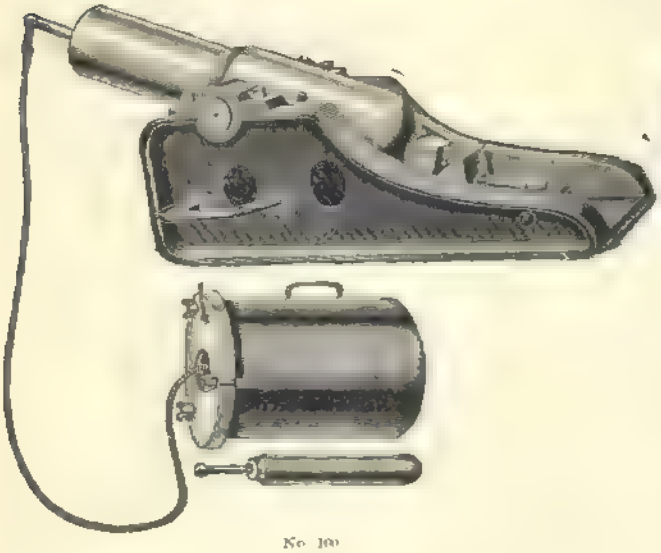
### Ritchie's, Liquid, Mahogany Case, Flat Card

| No. | Card, Inch. | Glass, Inch. | Ring, Inch. | Box, Inch. | Weight Each, Lbs. | Each |
|---|---|---|---|---|---|---|
| 2 | 2⅛ | 2 | 3½ | 4½ | 1½ | $10 00 |
| 3 | 3⅛ | 3¼ | 5¼ | 6¾ | 4½ | 21 00 |
| 4 | 4 | 4 | 6 | 7¼ | 7 | 25 00 |
| 5 | 4½ | 5 | 6¾ | 8¼ | 9½ | 27 50 |
| 6 | 5¼ | 6 | 8¾ | 9½ | 13½ | 31 00 |
| 7 | 6¼ | 7 | 9¾ | 11 | 19 | 32 00 |
| 8 | 7½ | 8 | 10¾ | 12 | 25 | 39 00 |

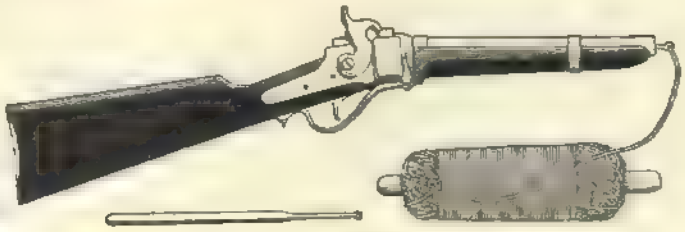
ONE IN A WOODEN BOX

# SHIP CHANDLERY

## LYLE GUNS



No. 100



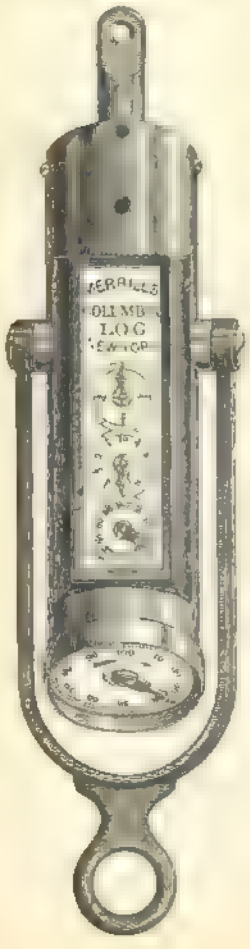
No. 10

**No. 10**—Breech-loading, Fitted to use Lyle Shot or Projectiles. Complete with Three Lines of 450 Feet Each, Four Projectiles, Cartridges, Cleaning Rod, etc., in Strong Wooden Box, 52 in. Long, 12 in. High, 5 in. Deep. Weight Net Complete in Case, Each 30 lbs.....Each, $50 00

**No. 100**—Bronze Barrel, 2½-in. Bore, Mounted on Iron Carriage, Complete with Three Reels with Lines, One Rewinding Apparatus, Three Projectiles, Rammer, Cleaning Rod and Worm, Priming Wire, Lanyard and Hook, Six Flannel Cartridge Bags, Twenty-five Friction Primers, in Hinged Cover Wooden Box. Weight Complete, 350 lbs..Each, $175 00

### Extras for Lyle Guns

| | | |
|---|---|---|
| **Lines on Reels** | ....Each, | $14 00 |
| **Projectiles** | " | 6 50 |
| **Friction Primers** | " | 10 |



Log

## SHIP LOGS

### Columbia

**Complete,** Including Propeller and Line. Weight Each, 11½ lbs.....Each, $25 00

ONE IN A WOODEN BOX

*The index hand on round dial at head of the Log can be set at the time the propeller is thrown over, thereby avoiding the keeping a record of how the hands stand every time the Log is used.*

*The friction wheels being grooved makes less friction; the grooves being a receptacle for oil makes them work smoother.*

**Extra Propellers**—Weight Each, 1½ lbs.....Each, $6 00
**Extra Line**—200 ft. Weight Each, 3½ lbs..... " 5 00

Propeller

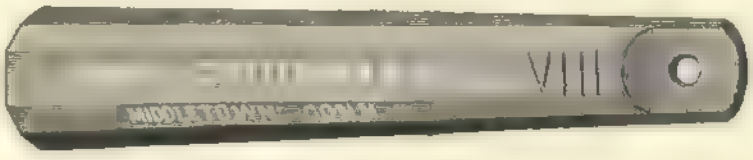
### Bliss, Taffrail

**Complete,** Including Propeller and Line. Weight Each, 12 lbs.....Each, $26 00

ONE IN A WOODEN BOX

**Extra Propellers** Weight Each, 1½ lbs ..Each, $6 50
**Extra Line**—200 ft. Weight Each, 3½ lbs . " 5 00

## SOUNDING LEADS

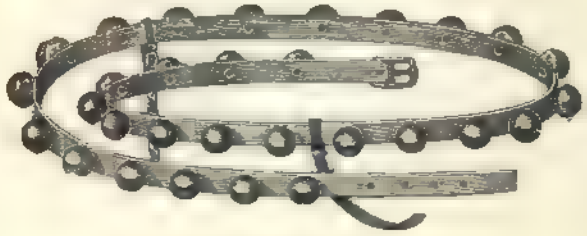


**Weights**—5, 6, 7, 8, 10, 12, 14, 15, 16, 20 and 25 lbs. . . .Per lb $0 18

# BELLS

## SLEIGH BELLS AND STRAPS

Plain, to Rivet



Leather Body Strap

Beveled, to Rivet

| | | | |
|---|---|---|---|
| **No. 219** | 20 1⅜ in. Polished Plain Bells, Riveted. Weight per String, 4 lbs. | Per String, | $3 00 |
| **No. 240** | 30 1⅜ " Tinned Plain Bells, Riveted. Weight per String, 4 lbs. | " | 4 25 |
| **No. 457** | 36 1¼ " White Metal Beveled Bells, Riveted. Weight per String, 5 lbs. | " | 3 50 |
| **No. 465** | 42 1¼ " Nickel Plated Beveled Bells, Riveted. Weight per String, 6 lbs | " | 9 50 |

## LOOSE SLEIGH BELLS

Beveled, to Rivet

Plain, to Wire

| | | | |
|---|---|---|---|
| **No. 2B** | —1¼ in., Nickel Plated, Beveled, to Rivet. Weight per Dozen, 3 lbs | Per Dozen, | $2 00 |
| **No. 2W** | —1¼ " Polished, Plain, Wire Fastening. Weight per Dozen, 3 lbs. | " | 1 70 |
| **No. 5W** | —1⅝ " Polished, Plain, Wire Fastening. Weight per Dozen, 3½ lbs. | " | 2 00 |
| **No. 7W** | —1⅞ " Polished, Plain, Wire Fastening. Weight per Dozen, 4 lbs. | " | 3 00 |

## SHEEP

Cast, with Leather Strap

**No. 12**—Size 1¾ in., Bell with Strap. Weight per Dozen, 6 lbs. Per Dozen, $5 50

**No. 2**—Bell only. Weight per Dozen, 4 lbs. Per Dozen, 4 50

## HORSE-CAR

Nos. 154 and 156

Pure Bell Metal, Rough

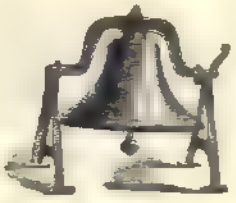
| Nos. | 154 | 156 |
|---|---|---|
| Diameter, in. | 3 | 3½ |
| Weight per Dozen Net, lbs. | 8 | 11 |
| Per Pound | $0 60 | 0 60 |

ALL ABOVE PACKED AS ANTED

# BELLS

## FARM

No 1 to 3



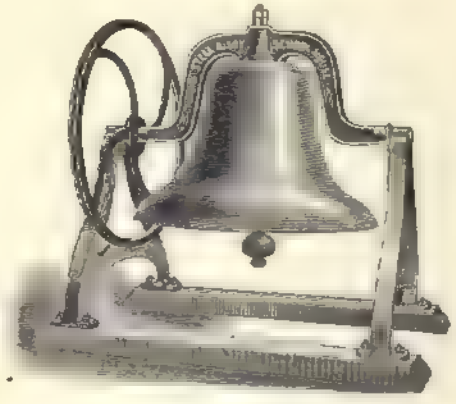
No 4

### Crystal Metal, Gold Bronzed

| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Diameter, in. | 15 | 17 | 19 | 21 |
| Weight Each, lbs | 40 | 50 | 75 | 100 |
| Each | $4 00 | 5 00 | 7 50 | 10 00 |

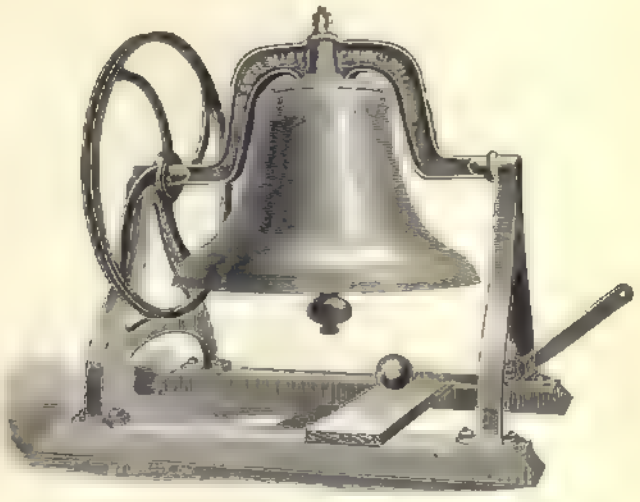
SEATTLE HARDWARE COMPANY

## SCHOOL



Nos 20 to 28

## CHURCH—WITH TOLL



Nos 30 to 54

### SCHOOL

Steel Alloy, Gold Bronzed

| Nos. | 20 | 22 | 24 | 26 | *28 |
|---|---|---|---|---|---|
| Diameter, in. | 20 | 22 | 24 | 26 | 28 |
| Weight, Bell only, Net lbs. | 110 | 122 | 155 | 220 | 294 |
| Weight, Bell Complete, Net lbs. | 165 | 205 | 250 | 350 | 450 |
| Each | $16 00 | 20 00 | 25 00 | 40 00 | 50 00 |

### CHURCH

Steel Alloy, Gold Bronzed, Complete with Tolling Hammer

| Nos. | 30 | *32 | 34 | 36 | *40 | *44 | *48 | *54 |
|---|---|---|---|---|---|---|---|---|
| Diameter, in. | 30 | 32 | 34 | 36 | 40 | 44 | 48 | 54 |
| Weight, Bell only, Net lbs. | 336 | 388 | 487 | 605 | 750 | 1062 | 1280 | 2050 |
| Weight, Bell Complete, Net | 570 | 640 | 765 | 950 | 1300 | 1790 | 2280 | 3150 |
| Each | $65 00 | 75 00 | 90 00 | 110 00 | 150 00 | 200 00 | 250 00 | 375 00 |

*Above weights are for complete Bells, and include wood and wheel for rope.*

** Not carried in stock; orders accepted for factory shipment only.*

# REVOLVERS

## SMITH & WESSON

### Double Action, Hammer

Rubber handles, 5 shot, blued finish.

| No. | | Each |
|---|---|---|
| **0323** | —32 Caliber, 3-in. Barrel. Wt. 12½ oz..... | $16 75 |

### New Departure, Hammerless

Rubber handles, 5 shot, blued finish.

| No. | | Each |
|---|---|---|
| **0323H** | —32 Caliber, 3 -in. Barrel. Wt. 14¼ oz..... | $17 75 |
| **0383¼H** | 38 Caliber, 3¼ " Barrel Wt 17 oz .. | 18 75 |
| **0384H** | 38 Caliber, 4 " Barrel Wt 17¼ oz " | 18 75 |

### Model 1902—Hand Ejector

Seven shots, swing-out cylinder, simultaneous ejection, rubber handles, blued finish

| No. | | Each |
|---|---|---|
| **0223E** | —22 Caliber, 3-in. Barrel. Wt. 9⅝ oz | $15 00 |
| **0226E** | -22 Caliber, 6-in. Barrel. Wt. 23 oz " | 28 00 |

*Shoots 22 long rim fire cartridges.*

### Model 1903—Hand Ejector

Six shots, swing-out cylinder, simultaneous ejection, blued finish.

| No | | Each |
|---|---|---|
| **0323¼E** | —32 Caliber, 3¼-in. Barrel. Wt. 17¾ oz. | $17 00 |
| **0324¼E** | —32 Caliber, 4¼ " Barrel. Wt. 18½ oz. | 17 00 |
| **0326E** | —32 Caliber, 6 " Barrel. Wt. 20 oz. | 17 00 |

*Shoots 32 S. & W. center fire cartridges.*

### Model 1902—Military and Police

Six shots, swing-out cylinder, simultaneous ejection, rubber handles, blued finish

| No. | | Each |
|---|---|---|
| **38024** | —38 Caliber, 4-in. Barrel. Wt 13 oz . | $19 75 |
| **38026** | —38 Caliber, 6-in. Barrel. Wt 32 oz. " | 19 75 |

### Model 1905—Military and Police

Six shots Same as Model 1902 except in handle, which is square butt, checkered wood

| No. | | Each |
|---|---|---|
| **032054** | 32 Caliber, 4 in Barrel. Wt 1[illegible] oz | $20 75 |
| **032056** | 32 Caliber 6 in Barrel. Wt 3[illegible] oz. | 20 75 |
| **038054** | 38 Caliber 4 in Barrel Wt 29 oz | 20 75 |
| **038056** | —38 Caliber, 6-in. Barrel Wt 32 oz | 20 75 |
| **038056T** | —38 Caliber, 6 in. Barrel, Target Sights | 24 00 |

*Shoots 38 S. & W. special, 38 long Colt and 32 W. C. F. cartridge.*

SEATTLE HARDWARE COMPANY

# REVOLVERS

## SMITH & WESSON

### Model 1908—Special

Six shots, double action, swing out cylinder, simultaneous ejection, checkered wood, square butt, blued finish

**No. 04486½**—44 Caliber, 6½-in. Barrel. Weight 2 lbs. 8 oz.....Each, $22 00

*Target sights can be furnished on above revolver on factory shipments only, at an additional cost of $2.00.*
*Shoots 44 S. & W. special and 44 S. & W. Russian cartridges.*

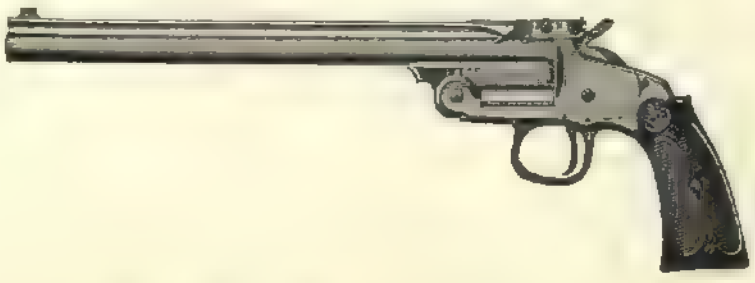
### Model 1911—Heavy Frame Target Revolver

Six chambers, pull under 4 pounds, S & W target sight, checkered wood grip made of Circassian walnut, gold monogram, blued finish.

**No. 022116**—22 Caliber, 6-in. Barrel. Weight 23 oz.....Each, $22 00

*Shoots 22 caliber long rifle cartridges only.*

## SINGLE-SHOT TARGET PISTOL



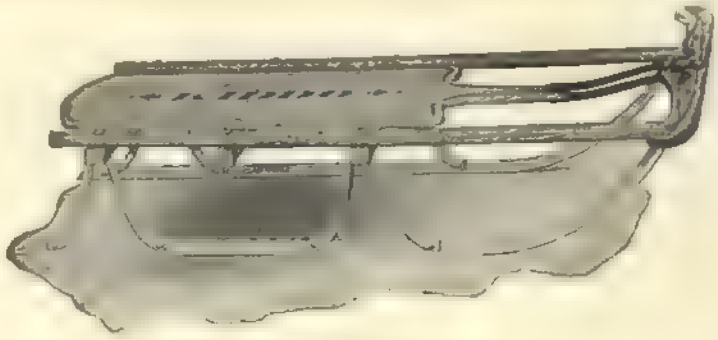
**No. 02210T**—22 Caliber, 10-in Barrel. Weight 1 lb. 8½ oz . . . . . .Each, $17 00

*The ammunition best adapted for this pistol is the 22 long rifle cartridge rim fire. It is equipped with target sights accurately sighted.*
*Any of the above revolvers can be fitted with pearl stocks at the factory only, the charges for same varying according to the caliber.*

# SLEDS

## STEERING

Can be guided to the right or to the left at will An ideal coasting sled Steel parts painted red; wood parts natural color, varnished The Fleetwing sleds have a re enforced steel cap on the end of platform rails.

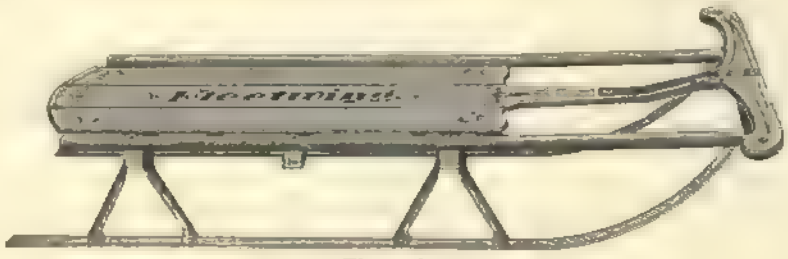


Kiddo

| No. | | Per Doz. |
|---|---|---|
| 75 | Length 31 in., Height 6 in., Width 12 in.; Weight Doz., 70 lbs | $16 75 |
| 85 | Length 33 in., Height 6 in., Width 12 in.; Weight Doz., 75 lbs | 18 00 |
| 86 | Length 36 in., Height 6 in., Width 12 in.; Weight Doz., 80 lbs | 22 00 |
| 87 | Length 40 in., Height 6 in., Width 12 in.; Weight Doz., 85 lbs | 26 00 |

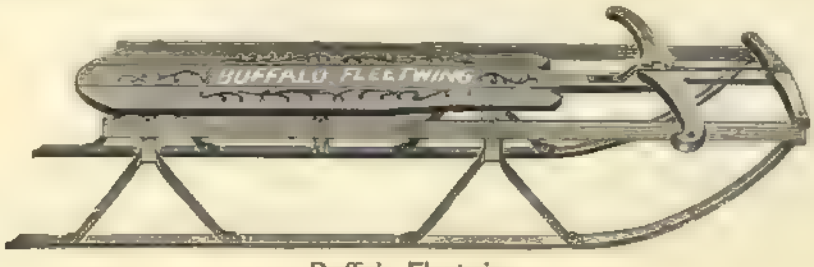
Kiddo Racer

| No. | | Per Doz. |
|---|---|---|
| 88 | Length 45 in., Height 6 in., Width 13 in.; Weight Doz., 100 lbs | $33 00 |
| 89 | Length 51 in., Height 6 in., Width 13 in.; Weight Doz., 120 lbs | 36 00 |



Fleetwing

| No. | | Per Doz. |
|---|---|---|
| 98 | Length 32 in., Height 6 in., Width 12 in.; Weight Doz., 90 lbs | $25 00 |
| 100 | Length 36½ in., Height 6 in., Width 13 in.; Weight Doz., 102 lbs | 30 00 |
| 200 | Length 40 in., Height 6 in., Width 14 in.; Weight Doz., 114 lbs | 36 00 |




Buffalo Fleetwing

| No. | | Per Doz. |
|---|---|---|
| 300 | Length 45 in., Height 8½ in., Width 15 in.; Weight Doz., 144 lbs | $45 00 |

# SLEDS

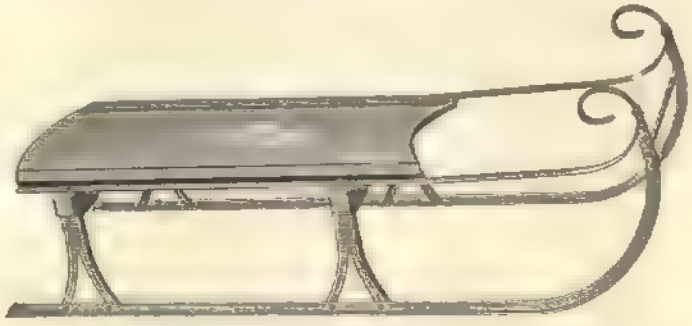
## COASTER

Natural Hardwood, varnished. Top-board painted and decorated. Hand-holes on side

| No | | Per Doz. |
|---|---|---|
| 102 | —Size 11 x 37 in., Full Round Spring Shoes; Weight Doz., 90 lbs | $15 00 |
| 105 | —Size 11 x 42 in., Full Round Spring Shoes; Weight Doz., 100 lbs | 21 00 |

Spring-Shod Clipper, Tops assorted Hardwood and painted, Three Beams.

| No | | Per Doz. |
|---|---|---|
| 117 | —Size 11½ x 46 in., Full Round Spring Shoes; Weight Doz., 150 lbs | $24 00 |



Steel Frame and Runners, painted red; Hardwood Top-board, painted green.

| No | | Per Doz. |
|---|---|---|
| 34 | —Length 30½ in., Height 6½ in., Width 11 in., 2 Knees; Weight Doz., 60 lbs | $13 00 |
| 35 | —Length 34 in., Height 5 in., Width 11 in., 2 Knees Weight Doz., 56 lbs | 13 00 |
| 36 | —Length 34 in., Height 6½ in., Width 11 in., 3 Knees. Weight Doz., 72 lbs | 16 00 |

Steel Frame and Runners, painted red; Hardwood Top-board, painted green.

| No. | | Per Doz. |
|---|---|---|
| 28 | Length 33 in., Height 6 in., Width 12 in., 2 Knees; Weight Doz., 85 lbs | $18 00 |
| 32 | —Length 37 in., Height 6 in., Width 12 in., 2 Knees; Weight Doz., 95 lbs | 21 00 |

SEATTLE HARDWARE COMPANY

# TOY WAGONS

## TOY WHEELBARROWS

| No. | Size Body, In. | Diam. Wheels, In. | Spokes in Wheel | Weight Doz., Lbs. | Per Doz |
|---|---|---|---|---|---|
| 14— | 10x14 | 10 | 12 | 65 | $14 00 |
| 16— | 12x15 | 12 | 12 | 75 | 16 00 |

*The bed of above Barrow is made of the best quality of sheet steel, with edges wired with suitable steel wire. The wheel is tinned, legs painted green, the bed is painted vermilion.*

## STEEL WAGONS

| No. | Size Body, In. | Size Axle, In. | Diam. Wheels, In. | Weight Doz. Lbs. | Per Doz. |
|---|---|---|---|---|---|
| 18 | 9x18 | ⅜ | 6 and 9 | 80 | $19 00 |
| 22— | 11x22 | ⅜ | 8 and 11 | 100 | 22 00 |
| 24 | 12x24 | 7/16 | 8 and 12 | 160 | 29 00 |
| 26— | 13x26 | 7/16 | 10 and 13 | 180 | 33 00 |
| 28 | 14x28 | 7/16 | 11 and 14 | 200 | 36 00 |

*The box is constructed of the best quality of sheet steel bent over a steel rod, and is nailed firmly to the bottom board. The body is handsomely painted with special vermilion, and nicely lettered. Patent gear made of malleable iron, and patent steel wheels.*

ONE-SIXTH DOZEN IN A CRATE

## OVERLAND COASTER WAGONS

Natural finish, hardwood body, with red stripes; running gear and wheels painted blue, varnished.

| No. | Body | Wheels | Wt | Each |
|---|---|---|---|---|
| 1A— | 14¼x36 in. | 8 in. | 28 lbs | $5 00 |
| 2A | 14¼x36 in. | 11 in. | 34 lbs | 6 00 |
| 3A— | 16¼x40 in | 11 in. | 39 lbs | 6 67 |

**Extra**—Bearings for Axles, all sizes
**Extra**—Wheels for 1A and 10....
**Extra**—Wheels for 2A, 3A, 20 and 30

## STAR COASTER WAGONS

Natural finish, hardwood body, with red stripes; black running gear, wheels painted red, varnished

| No. | Body | Wheels | Wt | Each |
|---|---|---|---|---|
| 10— | 14¼x36 in. | 8 in. | 28 lbs. | $5 00 |
| 20— | 14¼x36 in. | 11 in. | 34 lbs. | 6 00 |
| 30— | 16¼x40 in. | 11 in. | 39 lbs. | 6 67 |

.....Per Set, 1 00
.....Per Doz., 9 00
..... " 10 00

*Above Coaster Wagons, have perfect steering gear, steel channel arch construction, axles strongly braced, axles ¼ in. round steel, extra heavy wheels with iron hubs, hard steel roller bearings, equipped with hand brake, attractively painted*

PACKED TWO IN A CRATE

# WHISTLES

## AIR

### No. 160—For Air or Steam

Intended for pressure not greater than 20 pounds, nor less than three pounds.

| **Diameter,** in | 1½ | 2 | 2½ | 3 |
|---|---|---|---|---|
| Connection, in | ⅜ | ⅜ | ⅜ | ½ |
| Weight, lbs | ¾ | 1 | 1½ | 3¾ |
| Each | $4 25 | 4 90 | 6 85 | 14 00 |

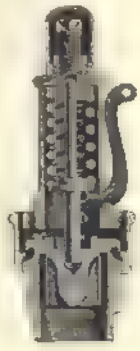
## WHISTLE VALVE

### No. 444—Brass, Screw Ends

Has an adjustable fulcrum, which permits of placing the lever in any desired position.

| **Size,** in | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 |
|---|---|---|---|---|---|---|---|---|
| Weight, lbs. | ½ | ½ | ⅞ | 1½ | 2 | 3 | 4⅜ | 6 |
| Each | $2 00 | 2 00 | 2 50 | 3 00 | 4 40 | 5 60 | 7 40 | 14 00 |

## POP SAFETY VALVES



### No. 148B—All Brass

For stationary and portable engines, and for marine use on a basis of one square inch to three square feet of grate surface. Made to comply with the rules and regulations of the U. S. Board of Supervising Inspectors of Steam Vessels.

| **Size,** in | ½ | ¾ | 1 | 1¼ | 1½ | 2 |
|---|---|---|---|---|---|---|
| For Boilers, H. P. | 3 to 6 | 3 to 6 | 3 to 10 | 10 to 20 | 20 to 30 | 30 to 40 |
| Weight, lbs | 1⅛ | 1⅛ | 2 | 3 | 4 | 5 |
| Each, Finished | $9 00 | 9 00 | 11 00 | 13 00 | 16 00 | 24 00 |

*Above valves set to 125 pounds.*

## SENTINEL POP SAFETY VALVES

No. 433—Top Outlet

No. 629—Side Outlet

### Brass

For stationary, portable or marine steam boilers. Pressures from 100 to 175 in stock.

| **Size,** in | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ |
|---|---|---|---|---|---|---|---|
| Suitable for Boilers, H. P. | .. | 6 to 8 | 8 to 10 | 10 to 15 | 20 to 30 | 35 to 50 | 60 to 75 |
| Weight, Each | 1 | 1⅜ | 2¼ | 3½ | 5¾ | 9½ | 16 |
| **No. 433**—Top Outlet, Each | $6 00 | 6 50 | 7 50 | 9 00 | 11 50 | 18 00 | 28 00 |
| **No. 629**—Side Outlet, " | $.... | .... | 8 20 | 9 80 | 12 40 | 19 50 | .... |

SEATTLE HARDWARE COMPANY

# ASHCROFT GAUGES

### Pressure—Brass and Iron Case, Brass Ring

| Diameter, in | 2½ | 3½ | 5 | 6 |
|---|---|---|---|---|
| Iron Case ..... Each, | $6 00 | 7 00 | 8 00 | 13 00 |
| Brass Case ..... " | 4 00 | 9 00 | 11 00 | 16 00 |

*Standard pressures 60, 100, 160, 200 and 300 pounds. Also 3½-in. iron-ring gauge, 30-lb. pressure, for canners' use.*

### Vacuum—Iron Case, Brass Ring

| Diameter, in | 5 | 6 |
|---|---|---|
| Each | $8 00 | 13 00 |

*Graduated to 30 inches of vacuum.*

### Compound—Iron Case, Brass Ring

Compound pressure and vacuum.

| Diameter, in | 5 | 6 |
|---|---|---|
| Each | $14 00 | 16 00 |

*Standard graduations 60, 100, 160 lbs. steam and 30-in. vacuum.*

### Hydraulic—Iron Case, Brass Ring

For indicating pressures from 1,000 to 20,000 lbs.

| Diameter, in | 6 |
|---|---|
| Each (with check-valve) | $35 00 |

*Standard graduations from 2,000 to 20,000 lbs.*

### Altitude—Iron Case, Brass Ring

For indicating the height of water in tanks, reservoirs, standpipes, heating systems, etc.

| Diameter, in | 5 |
|---|---|
| Each | $16 00 |

*Standard graduations, 70 feet.*

### Ammonia—Iron Case, Brass Ring

For ammonia, gas or other pressure mediums which will deteriorate brass, N. P. and non-corrosive parts.

| Diameter, in | 6 |
|---|---|
| Each | $35 50 |

*Standard graduations, 150 and 300 pounds.*

*Prices include cock on all sizes excepting 2½-in. steam gauge. All above with ¼-in. connection except 2½-in. pressure gauge, which has ⅜-in. connection, and hydraulic gauge with ½-in. connection.*

SEATTLE HARDWARE COMPANY

# PISTOLS AND RIFLES

## STEVENS—POCKET

### Tip-up Model Pistol

**No. 41**—22 Caliber, Short, Rim Fire, 3½ in. Half Octagon Blued Barrel. Nickel-Plated Frame, Walnut Stock, Open Sights..Each, $3 00

### Off-Hand Target Model Pistol

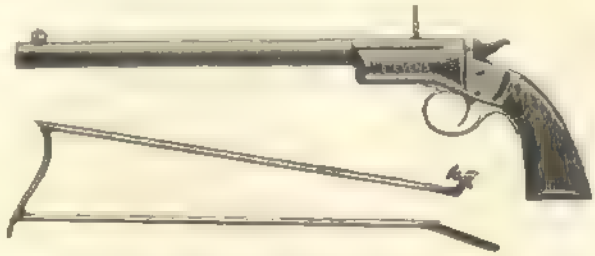
Long, rim fire, half-octagon blued barrel, nickel plated frame, walnut stock, sporting rear and bead front sights

| | | | |
|---|---|---|---|
| **No. 3522-6** | 22 Caliber, 6-in. Barrel | Each, | $7 50 |
| **No. 3522-8** | 22 Caliber, 8 " Barrel | " | 8 50 |
| **No. 3525-6** | 25 Caliber, 6 " Barrel | " | 7 50 |
| **No. 3525-8** | 25 Caliber, 8 " Barrel | " | 8 50 |

### Diamond Model Pistol

Long, rim fire, half-octagon blued barrel, nickel plated frame, walnut stock

| | | | |
|---|---|---|---|
| **No. 1**—22 Caliber, | 6-in. Barrel, Globe Front and Peep Rear Sights | Each, | $5 00 |
| **No. 2**—22 Caliber, | 6 " Barrel, Open Sights | " | 5 00 |
| **No. 4** 22 Caliber, | 10 " Barrel, Globe Front and Peep Rear Sights | " | 7 50 |
| **No. 5**—22 Caliber, | 10 " Barrel, Open Sights | " | 7 50 |



### New Model Pocket Rifle

Round barrel, octagon breech, nickel-plated frame, detachable skeleton rest, nickel plated Stevens globe front and Stevens combination folding rear peep sights. **Weight 2 to 2½ lbs.**

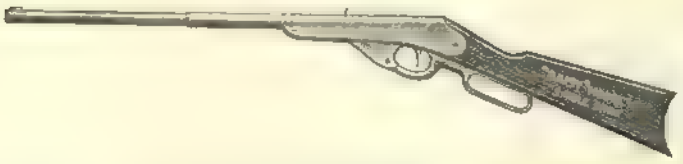
| | | | |
|---|---|---|---|
| **No. 2240-12**—22 Caliber, Long Rifle, Rim Fire, 12 in. Barrel | | Each, | $10 00 |
| **No. 2240-15**—22 Caliber, Long Rifle, Rim Fire, 15-in. Barrel | | " | 11 25 |

### Reliable Model Pocket Rifle

**No. 2242** 22 Caliber Long Rifle Rim Fire, Round Barrel, Octagon Breech, Nickel Plated Frame, Plain Walnut Stock with Detachable Nickel Plated Skeleton Rest, Globe Front and Peep Sights (Open Sights will be furnished if preferred.) Weight 1 lb. Each, $8 25

SEATTLE HARDWARE COMPANY

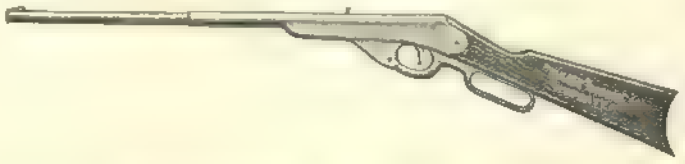
# AIR RIFLES



**Daisy, Single Shot. Model H**

No. 12 — Lever Action, Length 31½ in. Shooting Barrel removable and shoots either Air-Rifle Shot or 17 100 Darts. Single-Piece Steel Barrel Nickel Plated, Black Walnut Stock, Weight 1 lb. 12 oz . . . . . Each $1 00

ONE DOZEN IN A BOX WEIGHT 28 LBS



**350-Shot Daisy Repeater. Model H**

No. 11 — Automatic Repeater, with Lever Action; Magazine holds 350 shot; shoots either Air Rifle Shot or 17 100 Darts. Single Piece Steel Barrel Nickel Plated, Black Walnut Stock, Length 31½ in., Weight 1 lb 12 oz . . Each $1 25

**1,000-Shot Daisy Repeater. Model B**

No. 3 — Magazine Repeater, Lever Action. Magazine holds 1,000 shot and loads by operating the lever; Shooting Barrel provided with patented Shot Retainer that enables the user to shoot downward without losing the shot; Turned Stock of genuine Black Walnut, with Blued Steel Butt Plate, Length 36 in., Weight 2 lbs 9 oz . . . Each $2 00

ONE-HALF DOZEN IN A CASE WEIGHT 21 LBS

**500-Shot Daisy Repeater. Model B**

No. 30 — Automatic Repeater, Lever Action, same construction and finish as No. 3, but the Barrel is 3 inches shorter; Length 33 in., Weight 2 lbs. 7 oz.. . . . . Each $1 75

ONE HALF DOZEN IN A CASE WEIGHT 20 LBS

**Daisy Pump-Action Repeater**

No. 25 — **A real Rifle, with genuine Pump Action;** operates by pulling the slide toward the stock; fires rapidly from the shoulder, the magazine having a forced feed; a strong and accurate shooter; metal parts in Non Rusting Gun Blue, Stock genuine Black Walnut Hand Polished, adjustable Sights front and rear. Length 38 in. Weight 3 lbs. 4 oz . . . . . Each $3 00

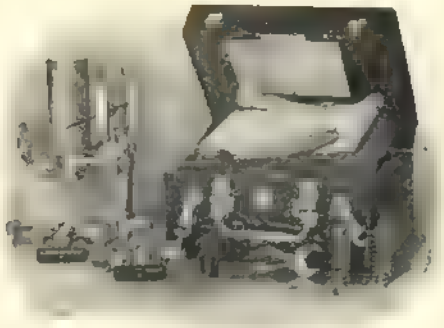
ONE HALF DOZEN IN A CASE WEIGHT 25 LBS

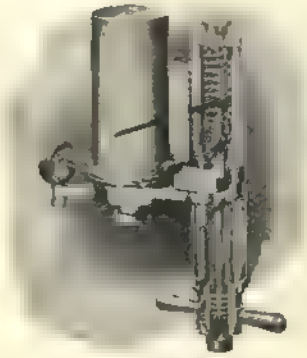
## AIR RIFLE DARTS

No. 100— Darts, suitable for use in any Single-Shot Air Rifle . . . . . Per Dozen Cards, $2 50

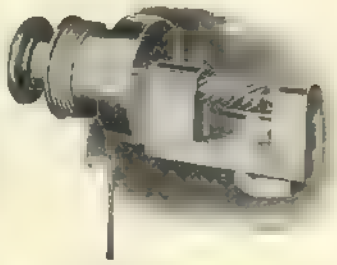
PACKED ONE DOZEN ON A CARD, TWELVE CARDS IN A BOX

# TABOR INDICATORS





Type OP—With Outside Spring, without Reducing Motion



Houghtaling Reducing Motion

*With each indicator order we ship, securely packed in a black-walnut case, the following: 1 pressure spring, 1 boxwood scale, 2 straightway cocks, 1 extra drum spring, 1 cord hook, 1 flat cord-adjuster, 1 bottle oil, 1 wrench, 1 screw-driver, 1 box lead marking points, 100 blank cards. If specified, one three-way cock will be supplied in place of the two straightway cocks, without extra charge.*

*A copy of the Tabor Indicator Book, a valuable publication, devoted to the application and operation of indicators, is included in each indicator outfit.*

*For indication of steam engines or for use with air, hydraulic or other pressure mediums which will not injure its bronze interior mechanism or parts. It is recommended for all pressures up to 325 pounds.*

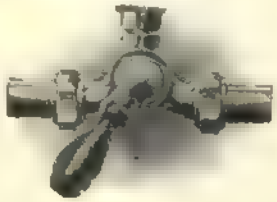
**Type OP Tabor Indicator**—Complete Outfit in Case . . . . . Each, $85 00

*Can be furnished from factory with Houghtaling Reducing Motion at an additional cost of $10.*

*Send for complete catalog of Tabor Indicators and Ashcroft Gauges.*

## EXTRA COCKS

Type OH



Type TH

### For Use on Horizontal Engines

| Type | Each |
|---|---|
| **OH**—Brass, Nickel Plated, Straightway | $2 75 |
| **TH**—Brass, Nickel Plated, Three-Way | 7 00 |

### Extra Parts

| | |
|---|---|
| **Cord** . . . . . Per Hank, | $0 50 |
| **Plain Cards**—Standard Size . . . . . Per 100, | 75 |
| **Oil** . . . . . Per Bottle. | 25 |

## EXTRA PULLEYS

Type TN

Type WS

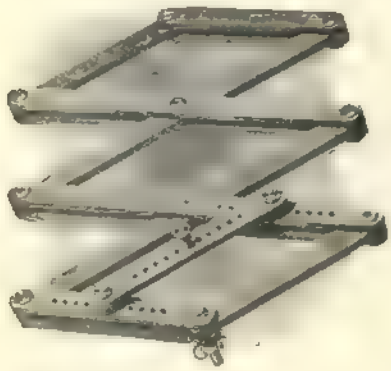
### Cord Guide Pulleys

| Type | Each |
|---|---|
| **TN**—With Thumb Nut, Nickel Plated | $2 50 |
| **WS**—With Wood Screw, Nickel Plated | 2 50 |

### Duplex Pressure Springs

| | |
|---|---|
| Scale 8 to 200 . . . . . | Each $5 00 |
| Scale 200 to 450 . . . . . | " 6 00 |

## ASHCROFT PANTOGRAPH



Strong and compactly built. Can be used to obtain any desired reduction in motion of the engine piston of strokes up to 72 in

Each . . . . . $10 00

## COFFIN AVERAGING PLANIMETER

The Averaging Planimeter was designed to give the mean effective pressure without the computation which is necessary with polar planimeters. In its design are eliminated all the defects common in the older forms.

Each . . . . . $30 00

*Full instructions for operating are packed with each instrument.*

# ASHCROFT GAUGES

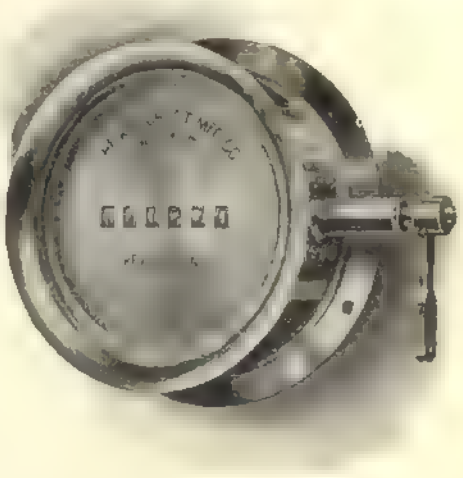
## ASHCROFT CLOCKS

**Deep Brass Case**

Specially adapted for stationary and marine engine rooms. Made with Seth Thomas eight-day movements. Finished with silver dials to match steam gauges in making up engine room sets.

**Type TC** 6½ in. Dial ..... Each, $45 00

## ASHCROFT REVOLUTION COUNTERS

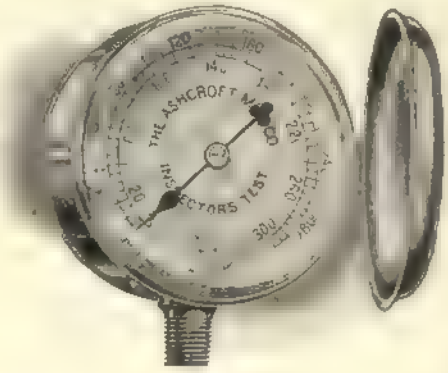


**Deep Brass Case**

For registering revolutions of stationary and marine engines. The six figure counter indicates up to 1,000,000 revolutions; can also be furnished with eight figures, indicating 100,000,000 revolutions.

**Type R** 6½ in., Six Figures ..... Each, $60 00

## INSPECTOR'S TEST GAUGE



**Brass Case**

For portable use in testing other gauges, and where extreme accuracy is desired. Size dial, 3 inches.

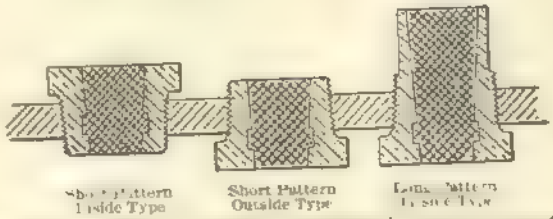
**With Cover** ..... Each, $15 00
**Without Cover** ..... " 14 00

*One-quarter-in. connection, graduated to any pressure 20 to 500 lbs. Union cock included*

## SYPHONS

**Steam-Gauge Syphon** ¼ in. Iron Pipe ..... Each, $0 70

# FUSIBLE PLUGS



Short Pattern Inside Type | Short Pattern Outside Type | Long Pattern Outside Type

These Plugs are filled with Banca tin, fulfilling in every respect the requirements of the steamboat inspection of the United States government.

| Size, inch | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ |
|---|---|---|---|---|---|---|---|
| Short Pattern Each | $0 60 | 60 | 60 | 75 | 1 00 | 1 50 | 2 00 |
| Long Pattern " | 1 20 | 1 20 | 1 20 | 1 50 | 2 00 | 3 00 | 4 00 |

*When ordering, always specify Inside or Outside type.*

SEATTLE HARDWARE COMPANY

# GOLD SCALES

## STANDARD POCKET

Nos. 2 to 6

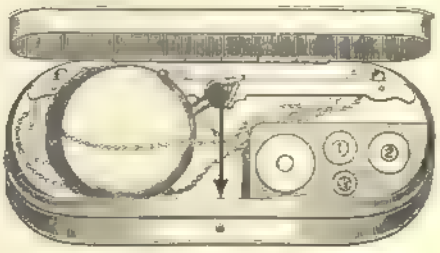
**Entire Scale of Brass, in Tin Box, Enameled and Striped.**

**No. 2** Capacity, 2 oz. Troy Weight; 6-in. Beam, 2⅝-in. Pans. Weight per Dozen, 9 lbs.... .....Per Dozen, $18 00

**No. 4**—Capacity, 4 oz. Troy Weight; 6-in. Beam, 2⅞-in. Pans. Weight per Dozen, 13 lbs... .....Per Dozen, 21 00

**No. 6**—Capacity, 6 oz. Troy Weight; 6¾-in. Beam, 2⅞-in. Pans. Weight per Dozen, 15 lbs. .....Per Dozen, 27 00

## TROEMNER'S POCKET



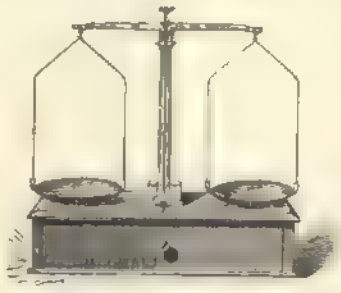
Nos. 12 and 14

**Entire Scale of Brass, in Tin Box, Enameled and Striped.**

**No. 12** Capacity, 2 oz. Troy Weight; 7-in. Beam, 3¼-in. Pans. Weight per Dozen, 15 lbs. .....Per Dozen, $42 00

**No. 14** Capacity, 4 oz. Troy Weight; 8-in. Beam, 3⅞-in. Pans. Weight per Dozen, 20 lbs.. .....Per Dozen, 52 00

## TROEMNER'S COUNTER



Nos. 108 to 164

**Entire Scale of Brass, in Polished Walnut Box with Drawer**

**No. 108** Capacity, 8 oz. Troy Weight, 7-in. Beam, 3½-in. Pan. Weight Each, 5 lbs. .....Each, $12 00

**No. 116**—Capacity, 16 " Troy Weight, 9 " Beam, 4 " Pan. Weight Each, 8 " ..... " 15 00

**No. 132**—Capacity, 32 " Troy Weight, 10 " Beam, 5 " Pan. Weight Each, 11½ " ..... " 18 00

**No. 164**—Capacity, 64 " Troy Weight, 13 " Beam, 6 " Pan. Weight Each, 17 " ..... " 30 00

# GOLD SCALE WEIGHTS

**Dollar Weights**.....Per Set, $1 00

SEATTLE HARDWARE COMPANY

# STEELYARDS

## FARMERS' PATTERN

Polished Malleable Iron Hooks, Heads and Poises Painted Red

| Nos | 50 | 100 |
|---|---|---|
| Capacity | 50 lbs. by 1 oz. | 100 lbs. by 2 oz. |
| Weight per Dozen, lbs | 45 | 60 |
| Per Dozen | $12 00 | 15 00 |

ONE-HALF DOZEN IN A CASE

# SCALE BEAMS

Japanned, with Gold Figures and Stripes

| Capacity, lbs. | 100 | 150 | 200 | 250 | 300 | 360 | 400 | 500 | 600 |
|---|---|---|---|---|---|---|---|---|---|
| Weight Each, lbs. | 9 | 10 | 11 | 14 | 18 | 22 | 26 | 35 | 39 |
| Use Poise, lbs. | 1 and 4 | 1 and 4 | 1 and 4 | 2 and 8 | 2 and 8 | 4 and 8 | 3 and 12 | 4 and 16 | 8 and 16 |
| Each | $1 50 | 1 50 | 1 60 | 1 90 | 2 10 | 2 50 | 2 90 | 3 50 | 4 00 |

ONE-HALF DOZEN IN A CASE

## SEPARATE POISES

| Weight, lbs. | 1 | 2 | 3 | 4 | 8 | 12 | 16 |
|---|---|---|---|---|---|---|---|
| Each | $0 25 | 0 30 | 0 40 | 0 50 | 0 85 | 1 10 | 1 50 |

# SCALE TEST WEIGHT

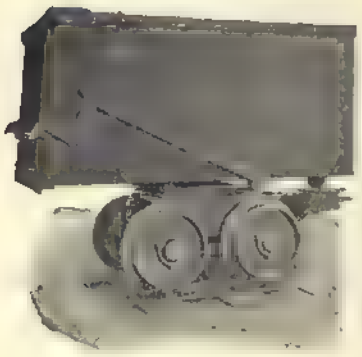
## HOWE'S STANDARD

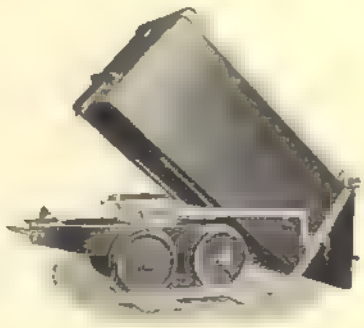
Cast Iron

**Test Weight**—Capacity, 50 lbs. Weight Each, 50 lbs. . . . . Each, $5 00

# ORE CARS

TRUAX





| Nos. | 14A | 17A | Light Ton |
|---|---|---|---|
| Width of Body, in | 24 | 24 | 30 |
| Length of Body, in | 44 | 48 | 48 |
| Height of Body, " | 21 | 24 | 24 |
| Total Height from Top of Track, in | 35 | 38 | 41 |
| Capacity, Cubic Feet | 13 | 16 | 20 |
| Diameter of Wheels, in | 10 | 10 | 12 |
| Gauge of Track, in | 18 | 18 | 18 |
| Gauge of Wheel, Sides, in | 12 | 12 | 12 |
| Thickness of Wheel, Bottom, in | 11/64 | 3/16 | 1/4 |
| Weight Each, lbs | 460 | 510 | 720 |
| Each | $ 57 75 | 67 50 | 87 00 |

*The AUTOMATIC DOOR holds the ore in car until partially dumped. After the load is dumped the door returns to its original position, and is automatically locked and wedged in place by the Patent Door Catches.*

*The MATERIALS of which Truax Ore Cars are constructed are Steel, Wrought Iron, and Malleable Castings, with the exception of wheels, which are made of best quality of Cast Iron, with Chilled Treads and Flanges.*

*TURNTABLES—The cars are fitted with Malleable Iron Turntables so they can be dumped on either side, as well as to the front.*

*SELF-OILING WHEELS—Truax Cars are fitted with Self-Oiling Wheels and Malleable Iron Dust Caps.*

SEATTLE HARDWARE COMPANY

# CAR WHEELS AND AXLES

TRUAX

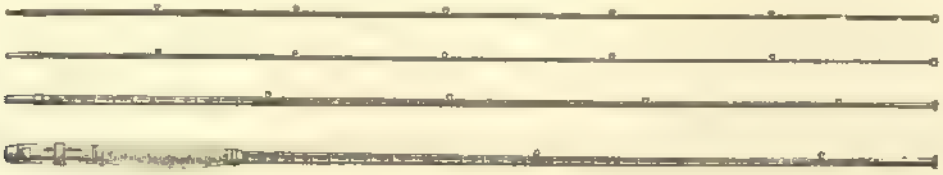
Self-Oiling, Fitted with Malleable Dust-Caps

| Size of Wheel, in | 10 | 12 |
|---|---|---|
| Size of Bore, in | 1½ | 1½ |
| Weight per Set Complete, lbs | 148 | 204 |
| Weight of Wheels only, Each, lbs | 30 | 44 |
| Per Set Complete, Two Pairs (four wheels and two axles) | $25 00 | 31 00 |
| Wheels only, Each, | 6 00 | 8 25 |

# FISHING RODS

## SPLIT BAMBOO FLY

**No. 0421**—Three pieces and extra tip, best quality selected Calcutta Bamboo, swelled butt, cork grip, each section tested before putting together, full German Silver mountings, welted and serrated ferrules, fly tops wound on tips, snake guides, silk wound at close intervals in clusters of orange and green, velvet form, with leather case and straps, canvas bag, lengths $8\frac{1}{2}$ to 10 ft., weight 5 ozs.....Each, $16 00



**No. 0422** Three pieces and extra tip, best select and seasoned Calcutta Bamboo, solid cork grip, each joint made of six strips firmly cemented, and each section tested before being put together, full German Silver mountings, welted ferrules, silk wound at close intervals in red and black, a splendid rod with perfect finish, action and balance, velvet covered form, and cloth bag, length 9 to 10 ft. .....Each, $20 00

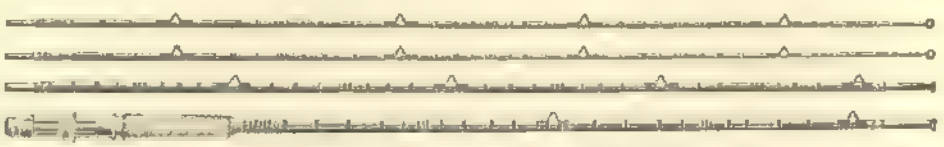
**No. 0423** Three pieces and extra tip, special cork grip, full German Silver mountings, patent reel seat below the hand, reinforced German Silver ferrules, serrated, silk wound bronze steel snake guides and fancy windings of black, white and scarlet silk, finely finished and put up in a velvet covered form and canvas bag, length $9\frac{1}{2}$ ft. . . . . Each, $16 00

**No. 0425—Varney**—Three pieces and extra tip, best select Calcutta Bamboo, solid cork grip, inlaid so as to show cedar above hand, each joint made of six strips firmly cemented and each section tested before being put together, German Silver mountings, reel plate below hand, snake guides and fly tops, silk wound at very close intervals in black and yellow, with border winds at guides, a strictly hand made rod in every particular, fine partition cloth bag with sole leather case, length $9\frac{1}{2}$ ft., weight $6\frac{1}{2}$ ozs . . . . . Each, $45 00

# FISHING RODS

## SPLIT BAMBOO FLY

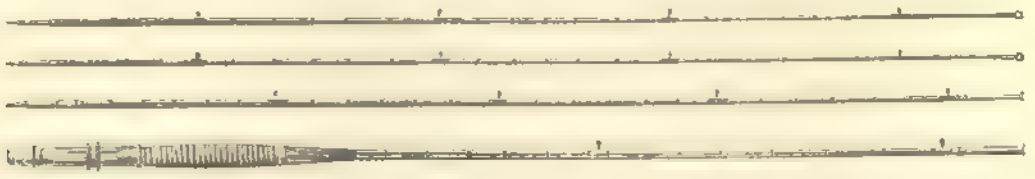
**No. 0416**—Three pieces and extra tip, cork grip, full bronzed mountings, solid metal reel plate below the hand, improved ferrules, welted, silk wound German Silver snake guides, fancy wrappings of scarlet and orange silk, finely varnished and put up in a velvet covered form and canvas bag, lengths 9 to 10½ ft ..... Each, $6 00



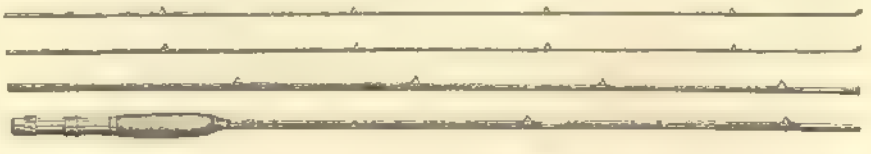
**No. 0417**—Three pieces and extra tip, solid cork grip, full nickel plated mountings, solid metal reel seat below the hand, improved ferrules, welted, silk wound German Silver snake guides and fly tops, closely wrapped at intervals with green silk, finely varnished and put up in a flannel covered form and canvas bag, lengths 8 to 9½ ft. ..... Each, $8 00

**No. 0418**—Three pieces and extra tip, solid cork grip, full nickel plated mountings, solid metal reel seat below the hand, improved ferrules, welted, silk wound German Silver snake guides, closely wrapped with red silk, finely varnished and put up in a velvet covered form and canvas bag, lengths 8½ to 10 ft ..... Each, 8 00

**No. 0418½**—Three pieces and extra tip, six strip extra fine Bamboo, solid cork grip, German Silver mountings, solid metal reel seat below the hand, improved ferrules, welted, closely wound with one color silk, finely varnished, **tips put up in tip case,** and in canvas bag, lengths 9 and 9½ ft ..... Each, $10 00



**No. 0419**—Three pieces and extra tip, fine quality Calcutta Bamboo, cork grip, cedar inlaid, six strips firmly cemented together, solid metal reel plate below hand, full nickel plated mountings welted and capped ferrules, snake guides, wound at very close intervals in yellow and green silk, with border winds at guides, flannel covered wood form, cloth bag, lengths 8½ to 10 ft., weight 7 to 8½ ozs. ..... Each, $10 00



**No. 0420**—Three pieces and extra tip, solid cork grip, full German Silver mountings, solid metal reel seat below the hand, fine German Silver ferrules, hand welted, silk wound German Silver snake guides and silk wound fly tops, fancy wrappings of scarlet and black silk, finely finished and put up in a velvet covered form and canvas bag, lengths 8 and 9 ft. ..... Each, $11 00

SEATTLE HARDWARE COMPANY

# ANVILS

**Vulcan**

Face is tool steel, accurately ground and tempered, welded to a body of superior pig iron.

| No. | Weight | Face | Each | No. | Weight | Face | Each |
|---|---|---|---|---|---|---|---|
| 1 | 15 lbs | 2¼ x 5 in | $3 25 | 6 | 60 lbs | 3½ x 10½ in | $ 6 50 |
| 2 | 20 lbs. | 2¾ x 6 in | 4 00 | 7 | 70 lbs | 3¾ x 10¾ in | 7 25 |
| 3 | 30 lbs | 2¾ x 7¼ in | 4 50 | 8 | 80 lbs. | 3¾ x 11½ in | 8 00 |
| 4 | 40 lbs. | 3 x 7½ in | 5 25 | 9 | 90 lbs. | 3½ x 11¾ in | 9 00 |
| 5 | 50 lbs. | 3 x 8½ in | 6 00 | 10 | 100 lbs. | 3½ x 12¼ in | 10 00 |

**Trenton**

Solid forged in two pieces and welded at waist. Face is one solid piece of special high grade tool steel.

**Base and Advances Per 100 Pounds**

| | | | |
|---|---|---|---|
| 80 to 425 lbs | Base, per Pound, $ | 40 to 49 lbs | Advance per Pound Over Base, $0 03 |
| 426 to 625 lbs | Advance per Pound Over Base, $0 00½ | 30 to 39 lbs | " " " " 05 |
| 626 to 800 lbs | " " " " 01 | 20 to 29 lbs | " " " " 08 |
| 70 to 79 lbs | " " " " 00½ | 10 to 19 lbs | " " " " 15 |
| 60 to 69 lbs | " " " " 01 | Horseshoer's (Clip Horn), 120 to 125 | Net pr lb. extra, 01 |
| 50 to 59 lbs | " " " " 02 | | |

**Peter Wright**

Faced with special Sheffield shear steel, converted from Swedish iron. The back, face and end are all in one solid forging.

**Base and Advances per 100 Pounds**

| | | | |
|---|---|---|---|
| 80 to 400 lbs | Base, per Pound, $ | | |
| 70 to 79 lbs | Advance per Pound Over Base, $0 01 | 50 to 59 lbs. | Advance per Pound, Over Base, $0 02 |
| 60 to 69 lbs | " " " " 01½ | Under 50 lbs | " " " " 0 03 |

SEATTLE HARDWARE COMPANY

# BLACKSMITHS' ANVIL TOOLS

Solid Cast Steel, Oil Finish

## SWAGES

No. 1190 Top Swages

| Size, inch | ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ |
|---|---|---|---|---|---|---|
| Weight Each, lbs | 2 | 2 | 2 | 2 | 2⅜ | 2¾ |
| Size, inch | 1 | 1⅛ | 1¼ | 1½ | 2 | 2½ |
| Weight Each, lbs | 2¾ | 2⅞ | 2⅞ | 4 | 4½ | 4½ |

Per Pound, all Sizes. . . . . $0 42

No. 1200 — Bottom Swages

| Size, inch | ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ |
|---|---|---|---|---|---|---|
| Weight Each, lbs | 2 | 2 | 2 | 2 | 2½ | 2½ |
| Size, inch | 1 | 1⅛ | 1¼ | 1½ | 2 | 2½ |
| Weight Each, lbs | 2½ | 2¾ | 2¾ | 3¾ | 5¼ | 5¼ |

Per Pound, all Sizes. . . . . $0 42

## FULLERS

No. 1210 Top Fullers

| Size, inch | ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ |
|---|---|---|---|---|---|---|
| Weight Each, lbs | 2 | 2½ | 2½ | 2¾ | 2⅞ | 2⅞ |
| Size, inch | 1 | 1⅛ | 1¼ | 1½ | 2 | 2½ |
| Weight Each, lbs | 3 | 3 | 3⅛ | 3⅛ | 4½ | 4¾ |

Per Pound, all Sizes . . . . $0 42

No. 2020 Bottom Fullers

| Size, inch | ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ |
|---|---|---|---|---|---|---|
| Weight Each, lbs | 2 | 2 | 2¼ | 2½ | 2½ | 2⅞ |
| Size, inch | 1 | 1¼ | 1¼ | 1½ | 2 | 2½ |
| Weight Each, lbs | 2⅞ | 3 | 3 | 3½ | 5 | 5½ |

Per Pound, all Sizes. . . . . $0 42

## FLATTERS

No. 1230 Flatters

| Size Face, inch | 1½ | 2 | 2½ | 3 | 3½ |
|---|---|---|---|---|---|
| Weight Each, lbs | 1¼ | 2 | 2½ | 4¼ | 6¼ |

Per Pound, all Sizes . . . . . $0 42

## SET HAMMERS

No. 1250 Set Hammer

| Size Face, inch | 1 | 1¼ | 1½ | 2 |
|---|---|---|---|---|
| Weight Each, lbs | 1¼ | 1½ | 3 | 4½ |

Per Pound, all Sizes . . . . . $0 42

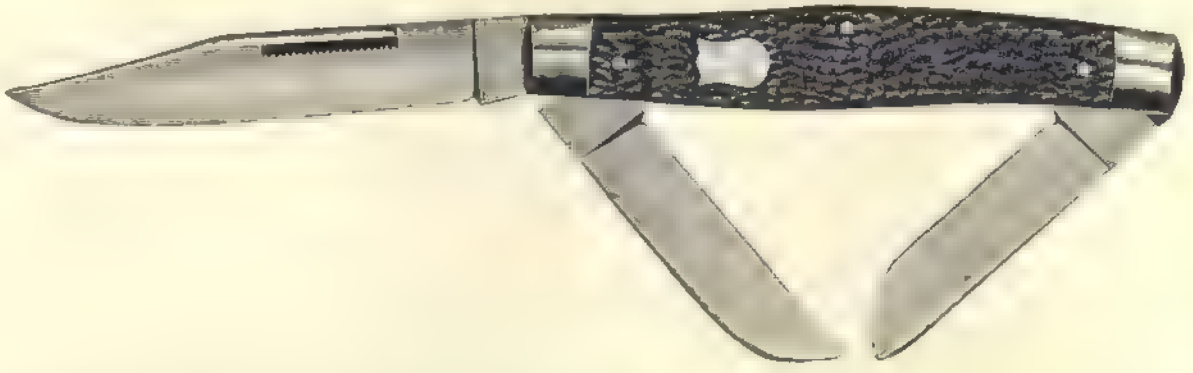
# POCKET KNIVES

**No. G1370**—Two Blades, 3½ in. Cocoa Handle, Steel Lined . . . . . Per Dozen, $5 00

**No. 416ST**—Three Blades, Corkscrew, 3¾-in. Stag Handle, Brass Lined, Clip . . . . . Per Dozen, $15 00

No. 19316BH

**No. 19316BH**—Two Blades, 4 in. Buffalo Horn Handle, German Silver Cap and Bolster, German Silver Shield, Brass Lined, Clip . . . . . Per Dozen, $12 00



**No. 7342AST**—Three Blades, 3¾ in. Stag Handle, Brass Lined . . . . . Per Dozen, $10 00
**No. 6066**—Three Blades, 4 in. Stag Handle, German Silver Bolster and Cap, Brass Lined . . . . . " 25 00
**No. 7347**—Three Blades, 3-in. Stag Handle, Brass Lined . . . . . " 10 00

FULL SIZE CUTS

ALL OF ABOVE ONE HALF DOZEN IN A BOX

# POCKET KNIVES

**No. 2659**—Four Blades, 3-in. Stag Handle, Brass Lined.....Per Dozen, $11 00

**No. 5607**—Four Blades, 3¼-in. Stag Handle, Brass Lined.....Per Dozen, $11 00

**No. 4576**—Three Blades, 3¼ in. Stag Handle, Brass Lined . Per Dozen, $11 00

**No. 5684** Four Blades, 3¼ in. Stag Handle, Brass Lined . . Per Dozen, $11 00

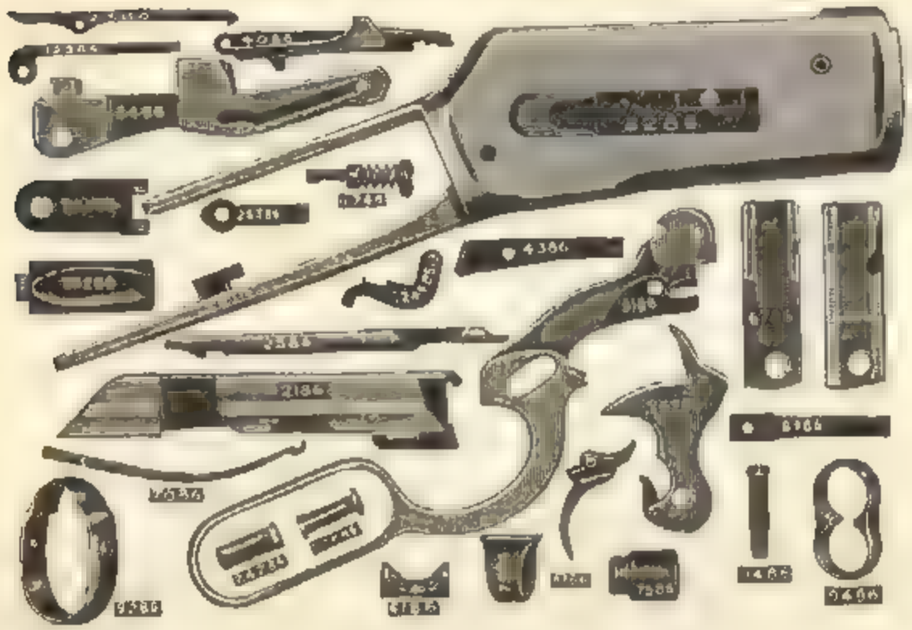
**No. 2569**—Three Blades, 3½-in. Stag Handle, Brass Lined..... Per Dozen, $11 00

**No. 4575** —Three Blades, 3⅜-in. Stag Handle, Brass Lined..... ..Per Dozen, $11 00
**No. G3065** -Three Blades, 3¾-in. Stag Handle, Brass Lined .. " 11 00

FULL SIZE CUTS

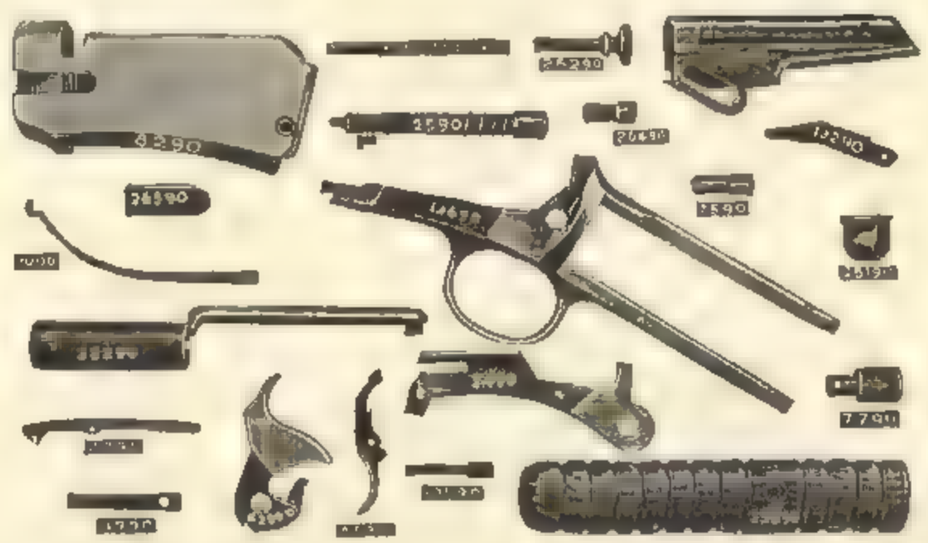
ALL ABOVE ONE-HALF DOZEN IN A BOX

## MODEL 1886



| | | |
|---|---|---|
| 186 | Barrel, Round | $ 6 25 |
| 286 | Barrel, Round, Nickel Steel | 10 00 |
| 386 | Barrel, Octagon | 8 00 |
| 486 | Barrel, Half Octagon | 8 50 |
| 586 | Barrel, Carbine | 5 50 |
| 686 | Barrel, Musket | 7 00 |
| 2086 | Breech Bolt | 2 25 |
| 2386 | Extractor | 25 |
| 2486 | Extractor Pin | 05 |
| 2586 | Firing Pin | 50 |
| 2686 | Firing Pin Stop Pin | 05 |
| 2186 | Breech Bolt complete | 3 10 |
| 3086 | Butt Stock | 1 80 |
| 3186 | Butt Plate | 80 |
| 3286 | Butt Plate Screws (2) Each | 05 |
| 3086 | Butt Stock complete | 2 70 |
| 3486 | Carrier | 2 00 |
| 12386 | Carrier Spring | 20 |
| 12486 | Carrier Spring Screw | 05 |
| 24486 | Carrier Hook | 30 |
| 4886 | Ejector | 0 35 |
| 4986 | Ejector Collar | 05 |
| 5086 | Ejector Spring | 05 |
| 4786 | Ejector complete | 45 |
| 4686 | Cartridge Guide | 55 |
| 4986 | Cartridge Guide Screw | 05 |
| 4386 | Cartridge Stop | 35 |
| 24586 | Cartridge Stop Screw | 05 |
| 5286 | Finger Lever | 1 60 |
| 5386 | Friction Stud | 10 |
| 5486 | Friction Stud Spring | 05 |
| 5586 | Friction Stud Stop Pin | 05 |
| 5186 | Finger Lever complete | 1 80 |
| 24786 | Finger Lever Bushing | 10 |
| 24686 | Finger Lever Bushing Pin | 30 |
| 24086 | Finger Lever Connecting Pin | 05 |
| 5886 | Forearm | 0 60 |
| 5986 | Forearm Tip | 55 |
| 6086 | Forearm Tip Screws (2) Each | $0 05 |
| 6186 | Forearm Tip Tenon | 15 |
| 6487 | Front Band, Carbine | 40 |
| 6386 | Front Band Screw, Carbine | 05 |
| 6286 | Hammer | 60 |
| 6186 | Hammer Stirrup | 10 |
| 6586 | Hammer Stirrup Pin | 05 |
| 6286 | Hammer complete | 75 |
| 6086 | Locking Bolt, Right Hand | 35 |
| 6286 | Locking Bolt, Left Hand | 30 |
| 14486 | Lower Tang Screw | 05 |
| 486 | Magazine Tube | 1 75 |
| 7086 | Magazine Spring | 10 |
| 786 | Magazine Plug | 15 |
| 786 | Magazine Plug Screw | 05 |
| 7586 | Magazine Follower | 35 |
| 786 | Magazine Ring | 35 |
| 7386 | Magazine complete | 2 45 |
| 2086 | Main Spring | 30 |
| 2586 | Main Spring Strain Screw | 05 |
| 8286 | Receiver with Lower Tang | 11 05 |
| 8286 | Lower Tang | 1 30 |
| 8186 | Hammer Screw | 35 |
| 8086 | Receiver complete | 12 00 |
| 884 | Rear Band, Carbine | 40 |
| 886 | Rear Band Screw, Carbine | 05 |
| 8486 | Spring Cover Base | 40 |
| 8586 | Spring Cover Base Screw | 05 |
| 8286 | Spring Cover Leaf | 40 |
| 8386 | Spring Cover Leaf Spring | 40 |
| 8486 | Spring Cover Leaf Joint Pin | 05 |
| 8586 | Spring Cover Stop Pin | 05 |
| 24586 | Spring Cover complete | 85 |
| 8786 | Trigger | 30 |
| 8886 | Trigger Pin | 05 |
| 8986 | Trigger Spring | 10 |
| 886 | Trigger Spring Screw | 05 |
| 9186 | Tang Screw | 05 |

## MODEL 1890

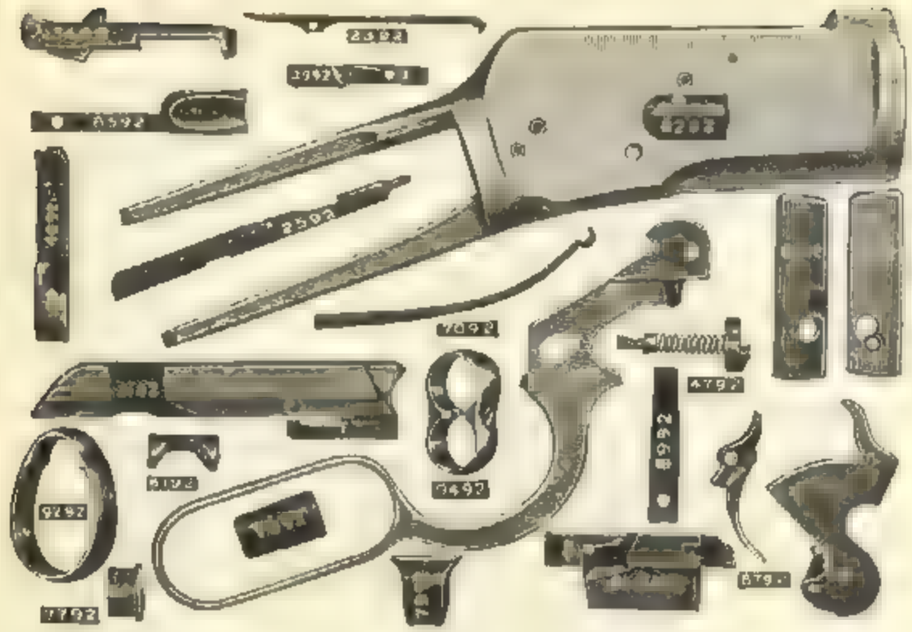


| | | |
|---|---|---|
| 3589 | Action Slide | $0 90 |
| 2589 | Action Slide Handle | $ 0 40 |
| 3549 | Action Slide Handle Escutcheons (2) each | 05 |
| 36560 | Action Slide Handle complete | 50 |
| 3584 | Action Slide Handle Screws (3), each | 05 |
| 150 | Barrel, Octagon 24 inch | 7 00 |
| 3000 | Butt Stock | 1 80 |
| 3190 | Butt Plate | 80 |
| 3290 | Butt Plate Screws (2), each | 05 |
| 3990 | Butt Stock complete | 2 70 |
| 2220 | Breech Bolt | 1 70 |
| 2390 | Extractor | 25 |
| 2490 | Extractor Pin | 05 |
| 2590 | Firing Pin and Spring | 50 |
| 10590 | Firing Pin Spring | 05 |
| 25790 | Firing Pin Stop | 10 |
| 2584 | Firing Pin Stop Screws (2) each | 05 |
| 318 | Breech Bolt Complete | 2 70 |
| 6390 | Hammer | 0 60 |
| 6490 | Hammer Stirrup | 10 |
| 6590 | Hammer Stirrup Pin | 05 |
| 629 | Hammer complete | 75 |
| 4190 | Carrier | 0 90 |
| 13250 | Carrier Lever | 10 |
| 13290 | Carrier Lever Pin | 05 |
| 13390 | Carrier Lever Spring | 05 |
| 13490 | Carrier Lever Spring Screw | 05 |
| 25990 | Trigger Stop Pin | 05 |
| 3390 | Carrier complete | 1 1 |
| 1990 | Magazine Tube, Outside | $ 1 25 |
| 19990 | Magazine Tube Inside | $ 0 95 |
| 7790 | Magazine Plug | 10 |
| 19790 | Magazine Plug Pin | 05 |
| 7690 | Magazine Spring | 10 |
| 7590 | Magazine Follower | 10 |
| 20990 | Magazine Tube, Inside, complete | 1 90 |
| 19690 | Magazine Friction Spring | 05 |
| 29090 | Magazine Ring, Front | 30 |
| 29190 | Magazine Ring, Rear | 30 |
| 8090 | Magazine Ring Pin | 05 |
| 7090 | Main Spring | 30 |
| 7190 | Main Spring Screw | 05 |
| 7290 | Main Spring Strain Screw | 05 |
| 8290 | Receiver | 4 50 |
| 13090 | Guard | 2 50 |
| 26290 | Assembling Screw | 15 |
| 26390 | Assembling Screw Stop Pin | 05 |
| 26490 | Assembling Screw Bushing | 10 |
| 8590 | Side Cover | 15 |
| 26690 | Side Cover Stop Screw | 06 |
| 8190 | Receiver complete | 7 50 |
| 8790 | Trigger | 30 |
| 8890 | Trigger Pin | 05 |
| 8990 | Trigger Spring | 05 |
| 9090 | Trigger Spring Screw | 05 |
| 9190 | Upper Tang Screw | 05 |
| 20590 | Wiping Rod | 15 |

# COMPONENT PARTS

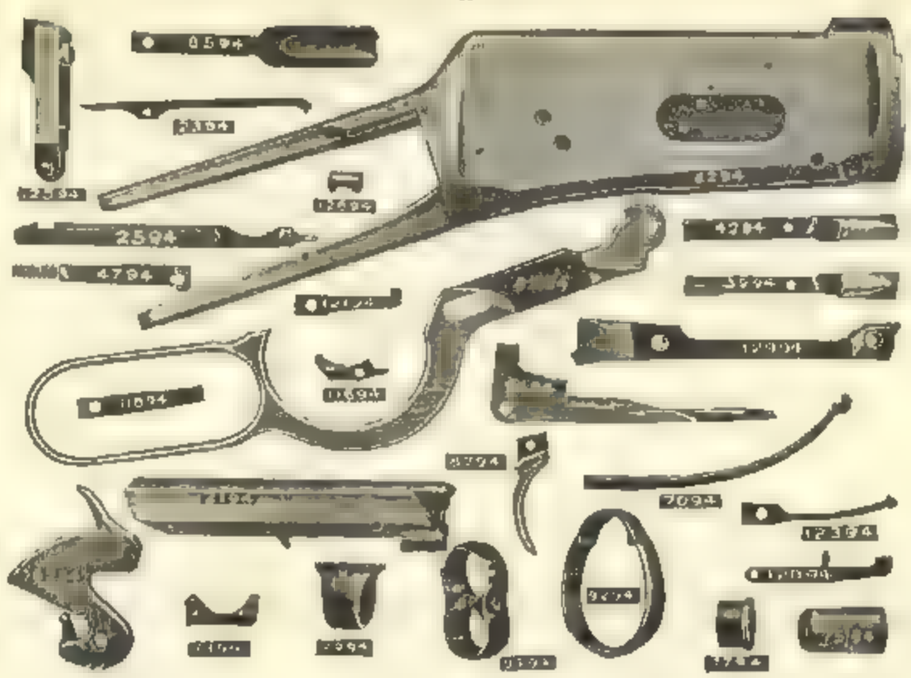
## WINCHESTER REPEATING RIFLE

### MODEL 1892



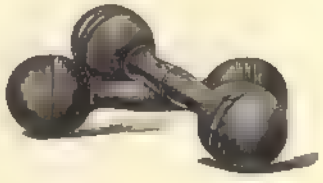
| | | |
|---|---|---|
| 192 | Barrel, Round | $6 50 |
| 292 | Barrel, Octagon | 8 00 |
| 392 | Barrel, Half Octagon | 8 50 |
| 492 | Barrel, Carbine | 5 50 |
| 592 | Barrel, Musket | 7 00 |
| 6292 | Breech Bolt | $ 1 75 |
| 2392 | Extractor | 25 |
| 2492 | Extractor Pin | 05 |
| 2592 | Firing Pin | 50 |
| 2692 | Firing Pin Stop Pin | 05 |
| 2792 | Ejector Guide | 10 |
| 2892 | Ejector Guide Pins 2, each | 05 |
| 2192 | Breech Bolt complete | 2 80 |
| 3092 | Butt Stock | 1 80 |
| 3192 | Butt Plate | 80 |
| 3292 | Butt Plate Screws 2, each | 05 |
| 3092 | Butt Stock complete | 3 70 |
| 3492 | Carrier | 50 |
| 3592 | Carrier Stop | 05 |
| 3692 | Carrier Stop Pin | 05 |
| 3792 | Carrier Stop Spring | 05 |
| 3392 | Carrier complete | 65 |
| 3992 | Carrier Screws 2, each | 05 |
| 2992 | Cartridge Guide, Right Hand | 25 |
| 4092 | Cartridge Guide Left Hand ,38 and 44 Caliber, complete | 30 |
| 4292 | Cartridge Guide, Left Hand, 32 Caliber | 30 |
| 4392 | Cartridge Stop | 30 |
| 4492 | Cartridge Stop Joint Pin | 05 |
| 4192 | Cartridge Guide, Left Hand, 32 Caliber, complete | 55 |
| 4592 | Cartridge Stop Spring | 05 |
| 4692 | Cartridge Guide Screws 2, each | 05 |
| 4892 | Ejector | 35 |
| 4992 | Ejector Collar | 05 |
| 5092 | Ejector Spring | 05 |
| 4792 | Ejector complete | 45 |
| 5292 | Finger Lever | 1 50 |
| 5392 | Friction Stub | 05 |
| 5692 | Friction Stud Spring | 05 |
| 5592 | Friction Stud Stop Pin | 05 |
| 5192 | Finger Lever complete | 1 55 |
| 5892 | Finger Lever Pin | $0 05 |
| 5792 | Finger Lever Pin Stop Screw | 05 |
| 5992 | Forearm | 60 |
| 5692 | Forearm Tip | 85 |
| 6092 | Forearm Tip Screws 2 each | 05 |
| 6192 | Forearm Tip Tenon | 15 |
| 0492 | Front Band, Carbine | 40 |
| 6592 | Front Band Screw, Carbine | 05 |
| 6392 | Hammer | 0 60 |
| 0492 | Hammer Stirrup | 10 |
| 6592 | Hammer Stirrup Pin | 05 |
| 0292 | Hammer complete | 75 |
| 6092 | Locking Bolt, Right Hand | 95 |
| 6792 | Locking Bolt, Left Hand | 30 |
| 6892 | Locking Bolt Pin | 05 |
| 6992 | Locking Bolt Pin Stop Screw | 05 |
| 7092 | Main Spring | 30 |
| 7192 | Main Spring Screw | 05 |
| 7292 | Main Spring Strain Screw | 05 |
| 7492 | Magazine Tube | 1 75 |
| 7592 | Magazine Follower | 05 |
| 7692 | Magazine Spring | 10 |
| 7792 | Magazine Plug | 10 |
| 7892 | Magazine Plug Screw | 05 |
| 7992 | Magazine Ring | 30 |
| 8092 | Magazine Ring Pin | 10 |
| 7892 | Magazine complete | 2 45 |
| 8292 | Receiver with Lower Tang | 7 95 |
| 8392 | Lower Tang | 1 45 |
| 8492 | Hammer Screw | 05 |
| 8192 | Receiver complete | 8 00 |
| 9392 | Rear Band, Carbine | 35 |
| 9692 | Rear Band Screw, Carbine | 05 |
| 9592 | Spring Cover | 35 |
| 9092 | Spring Cover Screw | 05 |
| 9792 | Trigger | 35 |
| 9892 | Trigger Pin | 05 |
| 9092 | Trigger Spring | 05 |
| 9192 | Upper Tang Screw | 05 |

### MODEL 1894



| | | |
|---|---|---|
| 194 | Barrel, Round | $6 50 |
| 294 | Barrel, Round Extra Light | 8 00 |
| 394 | Barrel, Round, Nickel Steel | 10 00 |
| 494 | Barrel, Round, Nickel Steel Extra Light | 13 00 |
| 594 | Barrel, Octagon | 8 00 |
| 694 | Barrel, Octagon, Extra Light | 8 75 |
| 794 | Barrel, Octagon, Nickel Steel | 11 50 |
| 894 | Barrel, Octagon, Nickel Steel Extra Light | 13 50 |
| 994 | Barrel, Half Octagon | 8 50 |
| 1094 | Barrel, Half Octagon, Extra Light | 9 50 |
| 1194 | Barrel, Half Octagon, Nickel Steel | 12 50 |
| 1294 | Barrel, Half Octagon, Nickel Steel Extra Light | 14 00 |
| 1394 | Barrel, Carbine | 8 50 |
| 1494 | Barrel, Carbine, Nickel Steel | 10 00 |
| 2294 | Breech Bolt | $1 75 |
| 2394 | Extractor | 25 |
| 2494 | Extractor Pin | 05 |
| 2594 | Firing Pin | 50 |
| 2694 | Firing Pin Stop Pin | 05 |
| 2194 | Breech Bolt Complete | 3 60 |
| 3094 | Butt Stock | 1 80 |
| 3194 | Butt Plate | 80 |
| 3294 | Butt Plate Screws, 2, each | 05 |
| 2994 | Butt Stock Complete | 2 70 |
| 3494 | Carrier | 25 |
| 3594 | Carrier Screws, 2 each | 05 |
| 12394 | Carrier Spring | 25 |
| 12494 | Carrier Spring Screw | 05 |
| 3994 | Cartridge Guide, Right Hand | 30 |
| 2294 | Cartridge Guide, Left Hand | 30 |
| 4694 | Cartridge Guide Screws, 2, each | 05 |
| 4894 | Ejector | 30 |
| 5094 | Ejector Spring | 05 |
| 12594 | Ejector Stop Pin | 05 |
| 4794 | Ejector Complete | 40 |
| 5294 | Finger Lever | 1 55 |
| 5694 | Finger Lever Pin | 05 |
| 5794 | Finger Lever Pin Stop Screw | 05 |
| 12594 | Finger Lever Link Screw | 05 |
| 5894 | Forearm | 60 |
| 5994 | Forearm Tip | $0 85 |
| 6094 | Forearm Tip Screws, 2, each | 05 |
| 6194 | Forearm Tip Tenon | 15 |
| 6492 | Front Band, Carbine | 40 |
| 6594 | Front Band Screw, Carbine | 05 |
| 6894 | Hammer | 60 |
| 6994 | Hammer Stirrup | 05 |
| 6594 | Hammer Stirrup Pin | 05 |
| 6294 | Hammer Complete | 75 |
| 7094 | Link | 1 00 |
| 6894 | Friction Stud | 10 |
| 7094 | Friction Stud Spring | 05 |
| 6894 | Friction Stud Steel Pin | 05 |
| 7094 | Link Complete | 1 80 |
| 7294 | Link Pin | 05 |
| 12494 | Link Pin Stop Screw | 04 |
| 7294 | Locking Bolt | 50 |
| 12994 | Firing Pin Striker | 05 |
| 12794 | Firing Pin Striker Stop Pin | 05 |
| 7594 | Locking Bolt Complete | 80 |
| 7494 | Main Spring | 30 |
| 7194 | Main Spring Screw | 05 |
| 7294 | Main Spring Strain Screw | 05 |
| 7494 | Magazine Tube | 1 80 |
| 7594 | Magazine Follower | 05 |
| 7694 | Magazine Spring | 10 |
| 7794 | Magazine Plug | 10 |
| 7894 | Magazine Plug Screw | 05 |
| 7994 | Magazine Ring | 30 |
| 8094 | Magazine Ring Pin | 05 |
| 7894 | Magazine Complete | 2 45 |
| 8294 | Receiver with Lower Tang | 7 95 |
| 8394 | Lower Tang | 1 45 |
| 8494 | Hammer Screw | 05 |
| 8194 | Receiver Complete | 8 00 |
| 9394 | Rear Band, Carbine | 35 |
| 9694 | Rear Band Screw, Carbine | 05 |
| 9594 | Spring Cover | 35 |
| 9094 | Spring Cover Screw | 05 |
| 9494 | Sear | 30 |
| 12694 | Sear Pin | 05 |
| 12894 | Sear Spring | 05 |
| 12994 | Sear Spring Screw | 05 |
| 9794 | Safety Catch | 15 |
| 9894 | Safety Catch Pin | 05 |
| 12894 | Safety Catch Spring | 05 |
| 9894 | Trigger | 30 |
| 9994 | Upper Tang Screw | 05 |

# ATHLETIC ACCESSORIES



## INDIAN CLUBS, MAPLE

| Weight Each, lbs..... | ½ | ¾ | 1 | 1½ | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|
| Per Pair..... | $0 40 | 0 50 | 0 60 | 0 70 | 0 80 | 1 00 | 1 30 |

## DUMB BELLS, MAPLE

| Weight Each, lbs..... | ½ | ¾ | 1 | 1½ | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|
| Per Pair..... | $0 40 | 0 50 | 0 60 | 0 70 | 0 80 | 1 00 | 1 30 |

## IRON DUMB BELLS, JAPANNED

| Weight Each, lbs..... | 2 | 4 | 6 | 8 | 10 | 12 | 15 | 20 |
|---|---|---|---|---|---|---|---|---|
| Per Pound..... | $0 10 | 0 10 | 0 10 | 0 10 | 0 10 | 0 10 | 0 10 | 0 10 |

## VAULTING POLES

### Spruce Poles

Made of extra light and strong selected spruce. Shod with durable steel spike.

| | | |
|---|---|---|
| No. 861—10 Feet..... | Each, | $5 50 |
| No. 862—12 Feet..... | " | 6 50 |
| No. 863—14 Feet..... | " | 7 00 |
| No. 864—16 Feet..... | " | 8 00 |

### Bamboo Poles

| | | |
|---|---|---|
| No. 305 14 Feet ..... | Each, | $9 00 |
| No. 306—16 Feet..... | " | 10 00 |

## IRON SHOT

| | | |
|---|---|---|
| No. 880—12-pound ..... | Each, | $2 50 |
| No. 882—16-pound ..... | " | 3 00 |

### QUOITS—Cast Iron, Japanned.

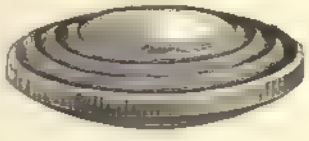
| | | |
|---|---|---|
| No. 176—1 lb. Each ..... | Per Set of Four, | $2 00 |
| No. 177 2¼ lbs Each. . . . | " " | 3 00 |
| No. 178—3¼ lbs. Each..... | " " | 4 00 |

## IRON HAMMERS

### Flanagan Style. Wire Handles

| | | |
|---|---|---|
| No. 870—12-pound..... | Each, | $5 50 |
| No. 872—16-pound..... | " | 6 50 |

## DISCUS



### Olympian. Maple, with Brass Center

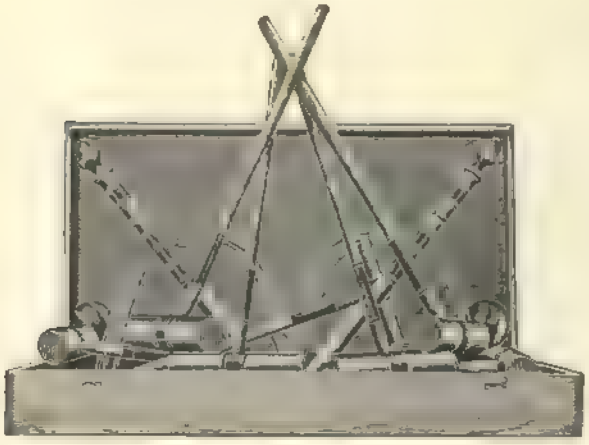
| | | |
|---|---|---|
| No. 173—An Exact Reproduction of those used in in the Olympian games at Athens, Guaranteed Correct; Weight Each, 4½ lbs.. | Ea. | $5 00 |
| No. 318—Malleable Iron, same shape and size as No. 173..... | | 3 50 |

## HAMMER HANDLES

| | | |
|---|---|---|
| No. 873—Flanagan Style Wire Handles for above Hammers . . . . . | Each, | $0 75 |

SEATTLE HARDWARE COMPANY

# CROQUET SETS



**No. 104** Four Ball Set. Rock Maple Balls and Stakes, Varnished, Beaded Mallets Oiled, with Maple Handles, Ten Polished Iron Arches, in Dove-tailed Wood Box with Hinged Cover. Weight per Set, 15 lbs. .....Per Set, $1 25

**No. 108** Eight Ball Set. Rock Maple Balls and Stakes, Varnished, Beaded Mallets, Oiled, with Maple Handles, Ten Polished Iron Arches, in Dove-tailed Wood Box, with Hinged Cover. Weight per Set, 23 lbs .....Per Set, 2 00

**No. 128** Eight Ball Set, all parts Varnished, Mallets Painted, Two Eight Color Stakes, Ten Polished Iron Arches, in Dove-tailed Wood Box. Weight per Set, 25 lbs.....Per Set, 2 50

**No. 138** Eight Ball Set, Eight Finely Painted Mallets Hand Turned, 6 in. Long Turned Handles, with Nine Fancy Stripes, Highly Polished Five Striped Balls, Two Large Beaded Fancy Striped Eight Color Stakes, Heavy Galvanized Arches, in Dove-tailed Wood Box. Weight per Set, 30 lbs. . Per Set. 3 50

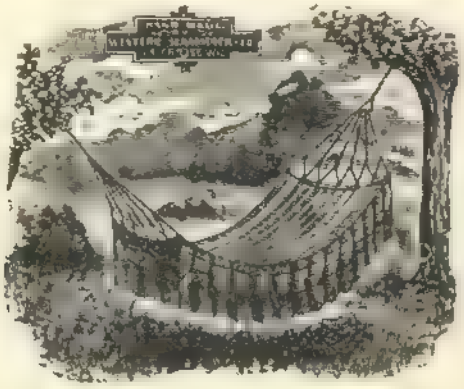
**No. 144** Four Ball Set, Medium Grade Professional, Full Varnished and Striped Balls, Handles and Stakes; 8 in. Mallets with Short Handles, Painted and Striped, Galvanized Arches, in Dove tailed Wood Box. Weight per Set, 20 lbs.....Per Set, 3 00

**No. 148** Eight Ball Set, Medium Grade Professional, Full Varnished and Striped Balls, Handles and Stakes, 8 in Mallets, with Short Handles, Painted and Striped; Galvanized Arches, in Dove-tailed Wood Box. Weight per Set, 34 lbs.....Per Set, 5 00

**No. 164** Special Four Ball Set, Hand Turned Rock Maple, with Shellac Finish; 9 in Ebonized and Bronzed Mallets, Ebonized and Bronzed Balls and Handles. Two Large Beaded Fancy Striped and Bronzed Four Color Stakes, with Heavy Galvanized Arches, in Dove-tailed Wood Box. Weight per Set, 24 lbs.....Per Set, 5 00

# HAMMOCKS

## WESTERN

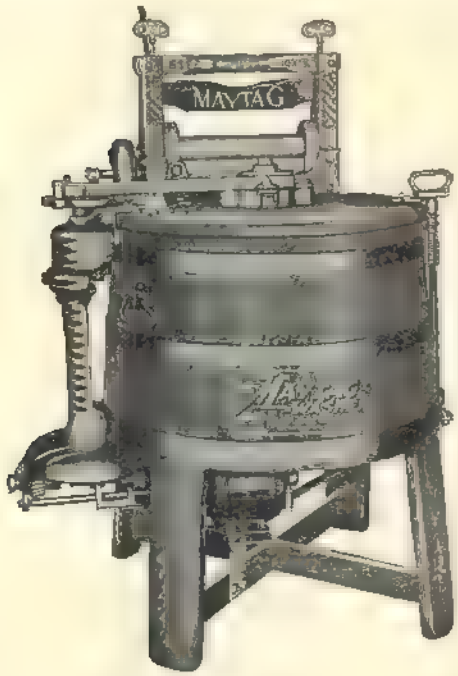


**Hand Woven, Covered Spreaders at Head and Foot**

**Cascade** —46x84 in., Extra Heavy, Full Color, with Valance . . . Per Dozen, $62 00
**Occident** —46x84 " Extra Heavy, Superior Quality, Full Color, with Valance " 72 00

*The Western Hand-Woven Hammocks are by far the strongest, best made and most durable hammocks on the market. They will outwear any other hammock, keep their shape, and give more genuine satisfaction than anything we have ever found at similar prices. Cascade, Olympic and Occident are guaranteed by us to carry fifteen hundred pounds. In fact, they are practically indestructible when used for the purpose intended.*

# WASHING MACHINES




**Maytag Power Washer**

The simplest washer on the market. Unquestioned durability; being gear-driven, it consumes a minimum of power. One handle operates the entire machine.

With Adjustable Swing Wringer.

**Belt Drive** . . . . . Each, $35 00
**Electric Drive** . . . . . " 65 00

WEIGHT EACH, 100 LBS

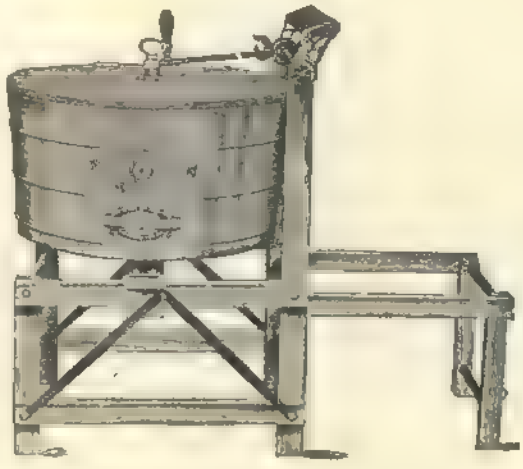
*When ordering electric-power machines, specify whether direct or alternating current. Alternating current only in stock, can furnish direct current from factory.*

**Regal High-Speed Washing Machine**

The gearing is of the simplest construction, with milled working parts. Non-tearing. Dash agitator. Tub made of Louisiana red cypress. Very easy to operate.

**Each** . . . . . $12 00

WEIGHT EACH 65 LBS



**Typhoon Washing Machine**

Run by Motor Spring.

Ball bearing. Tub made of Virginia white cedar, with electric-weld hoops. Tilting wringer board and rinsing-tub stand attached.

**Each** . . . . . $15 00

WEIGHT EACH 75 LBS

# WASHBOARDS



## BUSY BEE

**No. 0, Busy Bee**—Pail Board. Weight per Doz., 15 lbs.....Per Dozen, $3 50

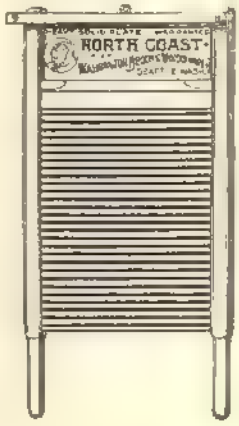
## OUR LEADER

No. 1

## PACIFIC

No. 2

## NORTH COAST



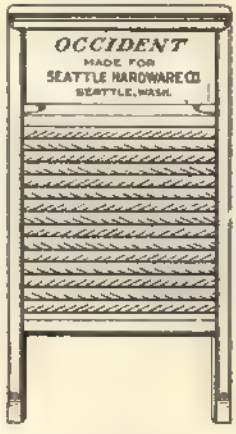

No. 11

**No. 1, Our Leader**—Single, Zinc, Lined. Weight per Dozen, 27 lbs.....Per Dozen, $5 00
**No. 2, Pacific** Single, Zinc, Lined. Weight per Dozen, 32 lbs.....“ 5 50
**No. 11, North Coast**—Double, Reversible, Zinc. Weight per Dozen, 30 lbs.....“ 7 50

## GLASS KING

No. 4

## OCCIDENT




No. 8

## ROYAL BLUE

No. 14

## BRASS KING

No. 15

**No. 4**—Single, Corrugated Glass. Weight per Dozen, 60 lbs.....Per Dozen, $10 00
**No. 8**—Double, Adjustable Protector, Zinc. Weight per Dozen, 42 lbs.....“ 8 00
**No. 14**—Single, Blue Enameled Steel. Weight per Dozen, 40 lbs.....“ 9 00
**No. 15** Single, Perforated Convex Surface, Reinforced Back Weight per Dozen, 34 lbs.....“ 9 00

ONE DOZEN IN A CRATE

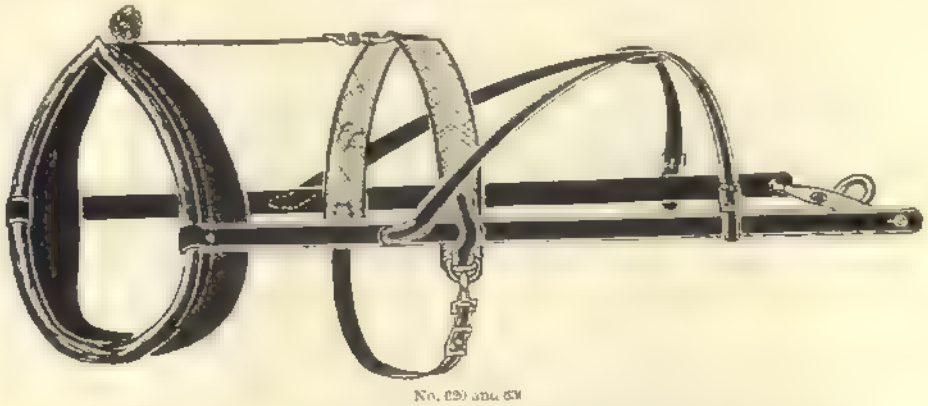
# DOG SLEDS AND HARNESS

## YUKON SLEDS

**Made of Hickory, Well Bound, Mortise Braced, with High Curved Front, Bored for Roping**

| | | |
|---|---|---|
| **No. 7S** | Full Length 7 ft., Width 16½ in., 1⅜ in. Runners, Steel Shoes, Weight 35 lbs. | Each, $ 6 00 |
| **No. 8S** | Full Length 8 ft., Width 16½ in., 1¾ in. Runners, Steel Shoes, Weight 40 lbs. | " 7 00 |
| **No. 7B** | Full Length 7 ft., Width 16½ in., 1¼ in. Runners, Brass Shoes, Weight 35 lbs. | " 10 00 |
| **No. 8B**—Full Length 8 ft., Width 16½ in., 1¼ in. Runners, Brass Shoes, Weight 40 lbs. | | " 12 00 |

## DOG HARNESS



No. 620 and 630

**Moulton Pattern, with Nome Bamboo Rim Racing Collars**

| | |
|---|---|
| **No. 620**—1-in. Webb Traces, 1½ in. Webb Back Band, Leather Couplings, with Hickory Whiffletree; Collar made from Calfskin with Bamboo Rim, extra light and durable | Per Set, $10 00 |
| **No. 630**—1 in. Special Tanned Leather Traces and 1" in. Back Band otherwise same as No. 620 | " 11 00 |

**Nome Style, with Long Traces. Without Crossover**

| | |
|---|---|
| **No. 600**—All Leather, 1⅛ in. Trace, Bamboo Rim Collar | Per Set, $7 00 |
| **No. 610**—All Leather, 1¼-in. Trace, Bamboo Rim Collar | " 7 50 |
| **No. 650**—All Leather, 1¾-in. Trace, Iron Rim Collar | " 6 00 |

## EXTRA COLLARS

**Nome Racing Style, Bamboo Rim**

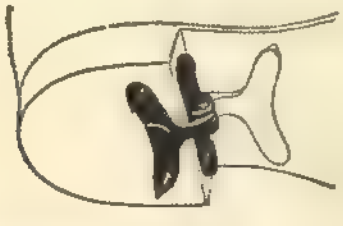
| | |
|---|---|
| **No. 111**—Best Grade, 6 to 8 in | Per Dozen, $42 00 |
| **No. 121**—Best Grade, 8 to 10 in | " 48 00 |

**Iron Rim Style. Calfskin**

| | |
|---|---|
| **No. 181** Small Sizes, 5 to 6 in | Per Dozen, $18 00 |
| **No. 171** Medium Sizes, 6 to 8 in | " 24 00 |
| **No. 161**—Large Sizes, 8 to 10 in | " 30 00 |

*In measuring for collars give inches from top to bottom of collar.*

# ICE CREEPERS



**Security**

Made to screw solid to the heel and to throw back out of the way when not in use. Reversible

Per Dozen Pairs . . . . $4 00

ONE DOZEN PAIRS IN A BOX, WEIGHT 3 LBS.

**Jamestown**

Galvanized Iron Plate, Hardened Steel points, Leather Toe Strap, best quality Rubber Heel Band

| | |
|---|---|
| **No. 1** Size for Men | Per Dozen Pairs, $15 00 |
| **No. 2**—Size for Women | " " 15 00 |

ONE DOZEN PAIRS IN A BOX, WEIGHT 4½ LBS

SEATTLE HARDWARE COMPANY

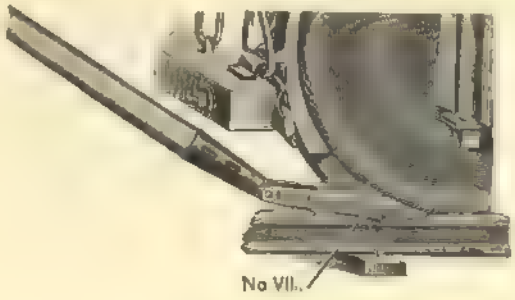
# CAR MOVERS

Zelnicker, Double Clutch

| No. | | Each |
|---|---|---|
| 10 | —Malleable Iron with best Tempered Steel Bits. Weight, 18 lbs. | ....$10 00 |

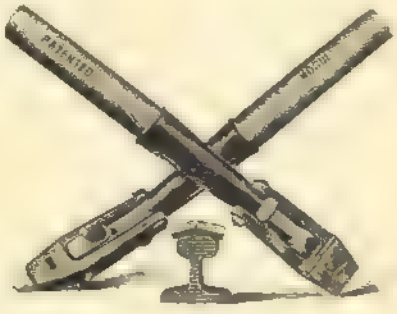
*This Mover has two entirely new features. The concave block coming in contact with the car wheel turns it, but does not lift it. The double clutch has V-shaped bits which catch the outer edge of the rail which is soft, insuring a good hold.*

SEATTLE HARDWARE COMPANY




Atlas

| No. | | Each |
|---|---|---|
| VIII | Malleable Iron and Steel. Hardwood Handle. Have double hold on the rail. Weight each, 20 lbs. | $7 00 |



Badger

A powerful device for moving cars. Has Double Spurs which catch the outer edges instead of center top of rail.

| No. | | Each |
|---|---|---|
| 2 | —Malleable Castings, Wood Handle, Steel Spurs. Weight, 16 lbs.... | . $9 00 |

# JACKS

## HYDRAULIC

### Watson & Stillman, with Claw

| Lifting Capacity | Height Down | Raise | Height of Claw | Weight Lbs. | Each |
|---|---|---|---|---|---|
| 10 tons | 25 in. | 12 in. | 5 in. | 117 | $80 00 |

### Duff-Bethlehem, with Fixed Claw

| No. | Lifting Capacity | Height Down | Raise | Height of Claw | Weight Lbs. | Each |
|---|---|---|---|---|---|---|
| BX— | 15 tons | 22 1/4 in | 12 in. | 3 1/2 in. | 105 | $125 00 |
| CCX— | 20 tons | 22 7/8 in | 12 in. | 3 1/2 in. | 160 | 165 00 |

# JACK SCREWS

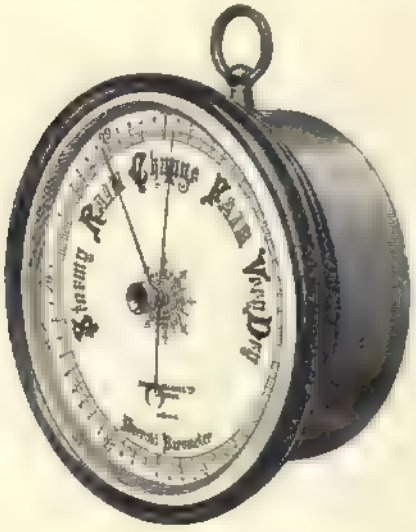
## BELL BOTTOM

*Levers sent only when ordered and charged for extra*

| Diameter of Screw Inch | Height of Stand Inch | Height Over All Inch | Lifting Capacity Tons | Weight Each Lbs. | Each |
|---|---|---|---|---|---|
| 1 1/4 | 8 | 10 1/4 | 10 | 10 | $ 3 40 |
| 1 1/2 | 8 | 10 1/2 | 12 | 14 | 4 25 |
| 1 1/2 | 10 | 12 1/2 | 12 | 17 | 4 75 |
| 1 1/2 | 12 | 14 1/2 | 12 | 20 | 5 25 |
| 1 1/2 | 14 | 16 1/2 | 12 | 23 | 6 00 |
| 1 3/4 | 8 | 10 3/4 | 16 | 18 | 5 00 |
| 1 3/4 | 10 | 12 3/4 | 16 | 21 | 5 75 |
| 1 3/4 | 12 | 14 3/4 | 16 | 26 | 6 25 |
| 1 3/4 | 14 | 16 3/4 | 16 | 29 | 6 75 |
| 2 | 8 | 11 1/4 | 20 | 23 | 6 00 |
| 2 | 10 | 13 1/4 | 20 | 26 | $ 6 75 |
| 2 | 12 | 15 1/4 | 20 | 30 | 7 50 |
| 2 | 14 | 17 1/4 | 20 | 35 | 8 25 |
| 2 | 18 | 21 1/4 | 20 | 45 | 10 25 |
| 2 1/4 | 16 | 19 3/4 | 24 | 41 | 11 00 |
| 2 1/4 | 18 | 21 3/4 | 24 | 45 | 12 00 |
| 2 1/2 | 12 | 16 | 28 | 40 | 10 75 |
| 2 1/2 | 16 | 20 | 28 | 47 | 13 25 |
| 2 1/2 | 18 | 22 | 28 | 55 | 14 50 |
| 3 | 18 | 22 1/2 | 36 | 65 | 22 00 |

# ANEROID BAROMETERS

These Barometers are each high grade in their different classes, and are all thoroughly reliable instruments.




Adapted to use from sea level up to and including altitude of 3500 ft. This is the lowest priced barometer that we can recommend.

No. — Each

**2200**—5 in. Brass Case, Closed Porcelain Dial.... $10 50

Similar in general construction to No. 2200, but has open face and is superior in general finish, all parts being polished.

No. — Each

**2202**—5-in. Brass Case, Open Porcelain Dial..... $12 00

EACH IN A BOX

Marine Barometer, adapted for sea-level use. High-grade movement. Owing to its open range of scale, it is very sensitive to the slightest change. Movement parts are highly polished, and silver plated and lacquered to prevent rust.

No. — Each

**2217**—5-in. Brass Case; Dial is Hard White Enamel on Copper..... $15 75

Marine or Altitude Barometer; adopted by the U. S. navy and the weather bureau. Extra high quality in every detail and compensated for changes of temperature. Movement parts highly polished and finished throughout to prevent rust.

No. — Each

**2250**—5-in. Brass Case, Open Silvered Metal Dial.. $22 50

ALL ABOVE, EACH IN A BOX COMPLETE WITH BOOK OF INSTRUCTIONS. WEIGHT EACH, ABOUT 3 LBS.

SEATTLE HARDWARE COMPANY

# ANEROID BAROMETERS

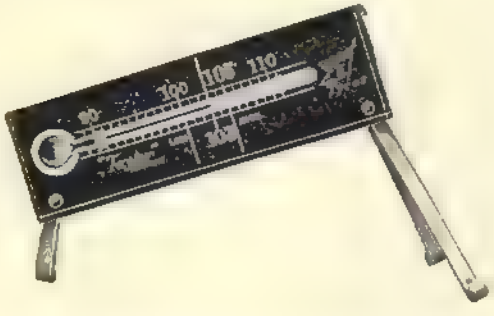
With patent revolving back, adjustable to any altitude up to and including 3,500 feet. An adjustment whereby the barometer hand points directly to the weather mark and at a glance the weather to be is foretold. Once an adjustment is made in a given location, no further adjustment is necessary.

**No. 2252**—5 in. Brass Case, Closed Porcelain Dial . . . . . Each, $34 00

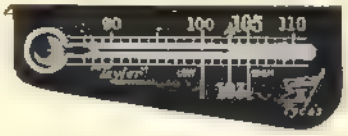
EACH IN A BOX

# THERMOMETERS

## INCUBATING



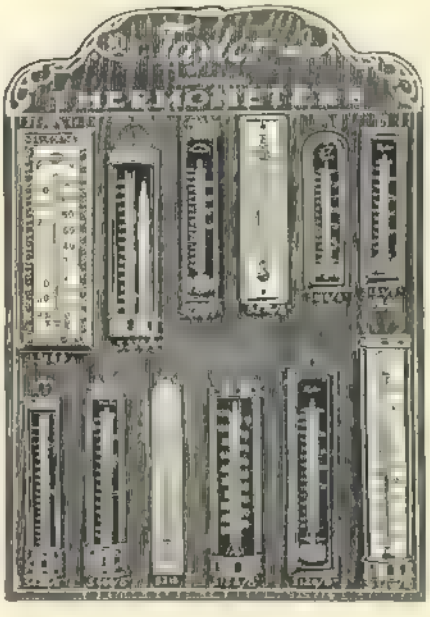
**No. 5778**—Straight Pattern, with Brass Adjustable Legs. Range 95° to 110° F. . Per Doz., $10 50



**No. 5774**—Angle Pattern, Flange on Upper Edge Turned Over so as to Hook on Wire or Metal Strip . . . . . Per Doz., $9 00

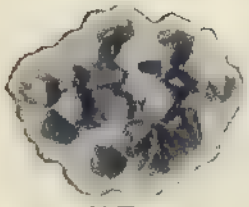
## THERMOMETER ASSORTMENT

On Board.



**No. 0**—Assortment consists of 19 Thermometers in 12 different styles as illustrated . . Per Asst., $13 50

## BLASTING POWDER.



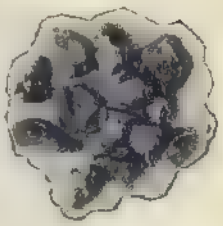
FF

Fig. 1027. FF.

FFF is a coarse, quick powder, used in places where a quick explosive is necessary.

FF is a coarser and slower powder than FFF; used in stone quarries and mines and for railroad and all general work.

F. Next coarser grain and slower than FF; used largely in quarries.



F

Fig 1028. F.

Our Mining Blasting Powder is packed in iron kegs, each keg containing 25 pounds of powder exclusive of the weight of the keg.

Price upon application.

## GIANT POWDER OR DYNAMITE.

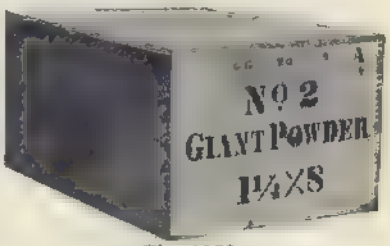



Fig 1029.

This compound is now too well known to require explanation. In all cases of blasting which requires quick and effective work, it is indispensable. Contractors and all others having heavy blasting to do recognize this fact and act upon it We keep and sell the powder made under the original Noebel patents, and are Sole Agents for the Northwest. We are prepared to quote manufacturers' lowest prices, and have in magazine, St. Paul, all the various grades from 40 to 60 per cent nitro-glycerine.

Put up in cartridges of 1¼ inches diameter by 8 inches long, 2 to the pound Packed in cases of 50 pounds each.

In ordering, please state precisely the material the powder is to be used in also the exact nature of the work to be done, and we will send a grade of powder suitable to accomplish it. Instructions for using will be given upon application

The regular grades, No 1 and No 2, are adapted for ordinary use.

Price List.

| | | Per Pound |
|---|---|---|
| No 1A. | 60 per cent nitro-glycerine. | $. |
| No. 1. (New) | 50 " " " | |
| No. 2. | 40 " " " | |

A charge of $1.50 will be made on quantities less than 100 lbs to cover expense of transportation to and from magazine.

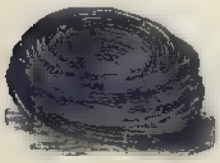


Fig. 1030

## SAFETY FUSES.

| | Per 100 feet |
|---|---|
| Safety Fuse, Single Tape (for use in wet ground). | $..... |
| Safety Fuse, Double Tape (for use in very wet ground) | |
| Safety Fuse, Triple Tape (for use in water) | |
| Cotton Fuse, (for use in dry ground) | |

## MAGNETO-ELECTRIC BLASTING MACHINES.

Fig. 1031.

Directions for Using

A Fuse should be used with the wires attached, of such length that the ends may protrude from the surface after the hole is charged, the fuse head being well in the charge.

Tamp with dry sand, or in such a manner that the wire may not be cut or the insulating covering upon them be injured.

In firing, in one circuit, a moderate number of Fuses, but two leading wires need to be used.

All connections of wire should be by hooking and twisting together the bare and clean ends, and it will be best if the parts joining be bright.

No 3, capacity 10 to 20 holes . . . . . $25 00
No. 4, capacity 20 to 40 holes . . . . 50 00

## PLATINUM FUSES.

With Insulated Double Cotton-Covered Wires.

Fig. 1032.

These are the fuses which are to be used with the "Magneto" Machines The cut shows in sections a platinum fuse nearly of actual size 50 in a bundle.

Price List.

| | | | |
|---|---|---|---|
| 4-foot wires, per 100 | $ | 14 foot wires, per 100 | $ |
| 6-foot " " | | 16-foot " " | |
| 8 foot " " | | 18-foot " " | |
| 10-foot " " | | 20-foot " " | |
| 12-foot " " | | | |

## CAPS.

Used in connection with Safety Fuse, for Exploding Dynamite, etc.
XXXX Gold Medal, the best made. Per box of 100..... $.

## CONNECTING WIRE.

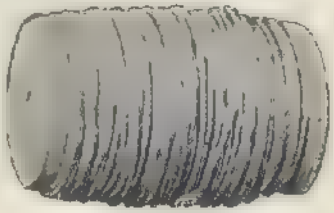


Fig 1033.

Used for connecting together fuse wires between the charge holes Made of pure copper and perfectly insulated and waterproofed. Price, per lb. $. .....

## LEADING WIRE.

Enough leading wire is needed to make two leaders of sufficient length to reach from the blast to a safe distance. 500 feet is the quantity usually used.

Regular leading wire (in coils of 250 or 500 feet).

Per 100 feet . . . . . $

Fig. 1034

## LUNKENHEIMER STEAM WHISTLES.

These whistles are well made, have cast brass bells, insuring a clear tone, and are heavily constructed throughout. We guarantee them to be the best whistles of their class on the market. They can be easily adjusted to suit varying steam pressures. Made in sizes as per list below.

Price List.

| Diam. of Bells, Inches | 1 | 1¼ | 1½ | 2 | 2½ | 3 |
|---|---|---|---|---|---|---|
| Size of Pipe Connection, inches | ¼ | ¼ | ⅜ | ½ | ¾ | ¾ |
| Brass Whistles, with Adj. Lever, each | 3 10 | 3.75 | 4.00 | 5.50 | 6.50 | 8.50 |
| Brass Whistles, without Valve, each | 2.20 | 2 75 | 3.00 | 4.35 | 5 25 | 7 25 |
| Brass Whistles, without Valve, Long Bell, each | | | | | 6 40 | 8 00 |

| Diam. of Bells, inches | 3½ | 4 | 5 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|
| Size of Pipe Connection, inches | 1 | 1¼ | 1½ | 1½ | 2 | 2½ |
| Brass Whistles, with Adj. Lever, each | 11 50 | 15.00 | 22 50 | 33.00 | 95 00 | 160 00 |
| Brass Whistles, without Valve, each | 9.50 | 12.00 | 18.00 | 24.00 | 70.00 | 133.00 |
| Brass Whistles, without Valve, Long Bell each | 11 00 | 14.20 | 22.50 | 33.00 | 90 00 | 150 00 |

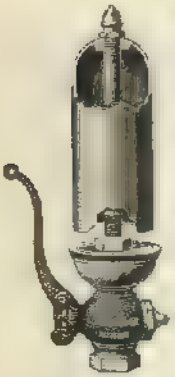


Fig. 208
All Brass with Adjustable Lever.

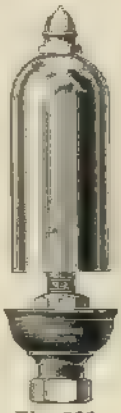


Fig. 209
All Brass without Valve

The lengths of bells range about as follows. Regular size twice, Long bell three times, and Extra Long Bell four times the diameter.

## SINGLE BELL CHIME STEAM WHISTLES.

Fig. 211 Locomotive Style

Price List.

| Diam of Bell, Ins. | Size of Stream Pipe, Inches. | Without Valve. | Fig. 210 | Fig. 211 |
|---|---|---|---|---|
| 2 | ½ | 5.00 | 7 00 | |
| 3 | ¾ | 8.00 | 11 00 | |
| 4 | 1 | 14.00 | 18.00 | 18.00 |
| 5 | 1¼ | 22.00 | 28.00 | 28.00 |
| 6 | 1½ | 38.00 | 42 00 | 42.00 |
| 8 | 2 | 85 00 | 100 00 | |
| 10 | 2½ | 150 00 | 180 00 | |
| 12 | 3 | 260 00 | 300 00 | |

Fig. 210
With Side Valve.

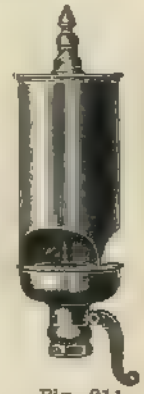


Fig 211
With Upright Valve. Loco Style.

## WHISTLE VALVES.

| Size. Inches | Price, Brass Each | Price, Iron Each |
|---|---|---|
| ⅜ | 2.00 | |
| ½ | 2 50 | |
| ¾ | 3 00 | |
| 1 | 3 50 | |
| 1¼ | 5 00 | |
| 1½ | 6 00 | |
| 2 | 9 00 | |
| 2½ | 18 00 | 15.00 |
| 3 | 27 00 | 18 00 |

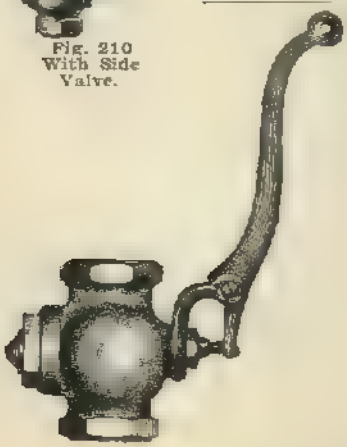


Fig 212

## LUNKENHEIMER'S SINGLE BELL CHIME WHISTLES.

Fig. 213
All Brass with Adjustable Lever

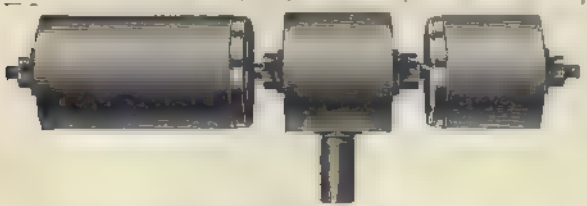
Fig. 214
All Brass without Valve

Fig. 215
Locomotive Style with [illegible] Valve

The Single Bell Chime Whistles shown above differ essentially from other makes, inasmuch as the bells are cast in one piece instead of being made in several parts.

Price List.

| Diameter of Bells, inches | 1½ | 2 | 2½ | 3 | 3½ | 4 | 5 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Size of Pipe Con., | ⅜ | ½ | ½ | ¾ | 1 | 1¼ | 1½ | 1 | 2 | 2½ |
| All Brass, Adj. lever, ea. | 7 00 | 10 00 | 11 00 | 16 00 | 22 00 | 28 00 | 44 00 | 60 00 | 145 00 | 235 00 |
| All Brass with t'v'lve, ea. | 5 50 | 8 50 | 10 50 | 13 50 | 18 50 | 24 00 | 37 00 | 48 00 | 120 00 | 188.00 |
| Iron base, with't v'lve, ea. | ..... | ..... | ..... | 12.00 | 16 50 | 22 00 | 33 00 | 45.00 | 108.00 | 165 00 |
| All Brass Locomotive, ea. | | | | | | 27 50 | 43.00 | 59.00 | | |



PATENT GONG WHISTLE

Fig. 216

It is made all of iron and will last forever.
It makes an entirely different sound from an ordinary whistle
It can be heard distinctly from six to eight miles.

| Diameter of Gong, inches. | 4 | 6 | 8 | 10 |
|---|---|---|---|---|
| Price | 12.00 | 14.00 | 20.00 | 30 00 |
| Size of Steam inlet, inches | 1¼ | 1½ | 2 | 2½ |

## LUNKENHEIMER AUTOMATIC BALANCED WHISTLE VALVE.

Guaranteed for 175 lbs. working pressure.

Price List

| Size of Valve, inches | 1 | 1¼ | 1½ |
|---|---|---|---|
| Screw Ends, each | 18 00 | 22 20 | 26 60 |
| Screw and Flange Ends, each | 21 40 | 26 00 | 31 80 |
| Flange Ends, each | 22 20 | 27 50 | 33 60 |

| Size of Valve, inches | 2 | 2½ | 3 |
|---|---|---|---|
| Screw Ends, each | 35 50 | 44.40 | 62 20 |
| Screw and Flange Ends, each. | 41.80 | 51.00 | 74.80 |
| Flange Ends, each | 43.80 | 53.20 | 77.00 |

Fig. 217

## STEEL RAILS.

**Amount in tons of various patterns to lay one mile of track.**

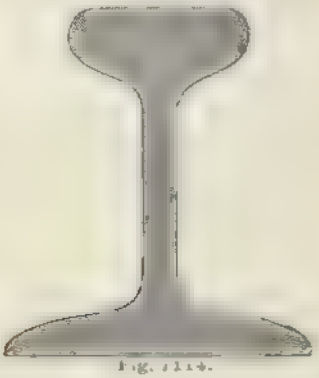


Fig. 1114.

| Weight per Yard, Lbs. | Tons per Mile. | Weight per Yard, Lbs | Tons per Mile | Weight per Yard Lbs | Tons per Mile | Weight per Yard Lbs | Tons per Mile |
|---|---|---|---|---|---|---|---|
| 8 | 12 | 45 | 70 | 68 | 103 | 80 | 125 |
| 10 | 15 | 48 | 75 | 67 | 105 | 82 | 128 |
| 12 | 18 | 50 | 78 | 68 | 106 | 85 | 133 |
| 16 | 25 | 52 | 81 | 70 | 110 | 88 | 138 |
| 20 | 31 | 56 | 88 | 71 | 111 | 90 | 141 |
| 25 | 39 | 57 | 89 | 72 | 113 | 92 | 144 |
| 28 | 44 | 60 | 94 | 73 | 114 | 95 | 149 |
| 30 | 47 | 61 | 95 | 75 | 117 | 98 | 154 |
| 35 | 55 | 63 | 99 | 78 | 122 | 100 | 157 |
| 40 | 62 | 65 | 102 | | | | |

Prices upon application.

## RAILROAD TRACK BOLTS.

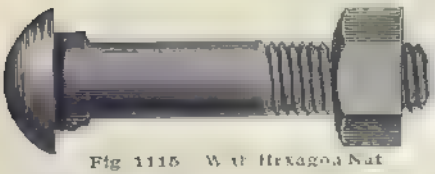


Fig 1115 With Hexagon Nut

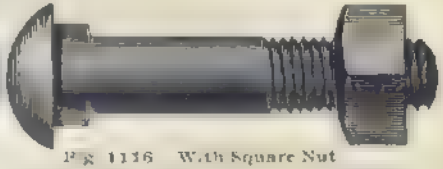


Fig 1116 With Square Nut

| Rail used | Bolts. | No. in Keg of 200 Lbs | Kegs per Mile | Price |
|---|---|---|---|---|
| 40 to 70 lb. | ¾ x 4 | 221 | 6 4 | |
| 40 to 70 lb. | ¾ x 3¾ | 234 | 6 1 | |
| 40 to 70 lb. | ¾ x 3½ | 250 | 5 7 | |
| 25 to 45 lb. | ⅝ x 3½ | 329 | 4 3 | |
| 25 to 45 lb. | ⅝ x 3 | 350 | 4 1 | |
| 25 to 45 lb. | ⅝ x 2¾ | 365 | 4 | |
| 25 to 45 lb. | ⅝ x 2½ | 375 | 3 8 | |
| 18 to 20 lb. | ½ x 2½ | 654 | 1 3 | |
| 18 to 20 lb. | ½ x 2 | 750 | 3 | |

**Furnished with either square or hexagon nuts.**

## SPLICE BARS OR FISH PLATES.

**Plain or Angle, Made to Fit any Standard Rail**

Plain, per lb $..... Angle, per lb $ .....

Splice Bars and Bolts for one Mile of Track

| Length of Rail, Feet | Number of Splice Bars required. | Number of Bolts Required 4 Hole Splice | 6 Hole Splice | Number of Rail or Complete Joints |
|---|---|---|---|---|
| 24 | 880 | 1,760 | 2640 | 440 |
| 25 | 844 | 1,688 | 2532 | 422 |
| 26 | 812 | 1,624 | 2436 | 406 |
| 27 | 782 | 1,564 | 2346 | 391 |
| 28 | 764 | 1,508 | 2262 | 377 |
| 30 | 704 | 1,408 | 2112 | 352 |
| 33 | 640 | 1,280 | 1920 | 320 |

## VERONA NUT LOCKS.

Fig. 1117. Standard.

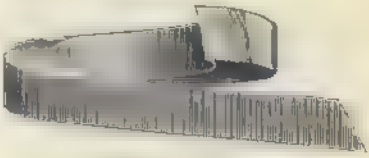


Fig. 1118. Tail

Price Per Thousand

| Size inches. | ½ | ⅝ | ¾ | ⅞ |
|---|---|---|---|---|
| Standard | | | | |
| Tail | | | | |

## RAILROAD SPIKES.

Fig. 1119

Price List, Railroad Spikes.

| Size Measured Under Head | Average Number Per Keg of 200 lbs. | Weight Per Between Centre and Four Spikes per Rail, Makes per Mile | | Rail Used, Weight per Yard | Cents per lb |
|---|---|---|---|---|---|
| Inches | | Pounds | Kegs | | |
| 5½ x ⅝ | 375 | 5632 | = 28.16 | 45 to 100 | |
| 5 x ⅝ | 400 | 5280 | = 26.4 | 40 to 56 | |
| 5 x ½ | 450 | 4692 | = 23.46 | 40 | |
| 4½ x ⅝ | 530 | 3984 | = 19.92 | 35 | |
| 4 x ½ | 600 | 3520 | = 17.60 | 30 | |
| 4½ x ⅝ | 680 | 3104 | = 15.52 | 25 | |
| 4 x ⅝ | 720 | 2932 | = 14.66 | 25 | |
| 3½ x ½ | 900 | 2356 | = 11.78 | 20 | |
| 2½ x ⅝ | 1342 | 1572 | = 7.86 | 16 | |
| 2½ x ½ | 1800 | 1172 | = 5.86 | 12 | |

## BOAT SPIKES.

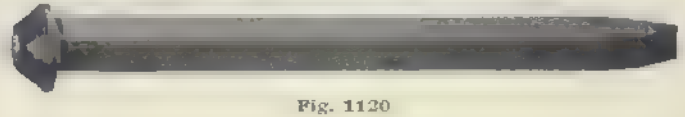


Fig. 1120

Price List.

| Sizes | Cents per lb. |
|---|---|
| ⅜ inch square, 12 to 16 inches in length | |
| ⅜ inch square, 8 to 12 inches in length | |
| ½ inch square, 8 to 12 inches in length | |
| ⅝ inch square, 8 to 10 inches in length | |
| ⅝ inch square, 4 to 10 inches in length | |
| ⅝ inch square, 4 to 6 inches in length | |
| ¾ inch square, 3 to 6 inches in length | |

## "ARMSPEAR" MARKER LAMP.

Fitted with large or small lenses as desired.

Any color or number specified.

Embodies every requirement for the service.

Gives a longer range from a given size lens than any lamp heretofore produced.

The strengthening of the lamp by the use of heavy material, lines and method of forming gives a guarantee of economy in equipment.

Lamps, per doz .. .... . .. .. ..... $.. . .... .

Arms, per doz ..... .... .. .. . . . .. . $ .. . .. . .

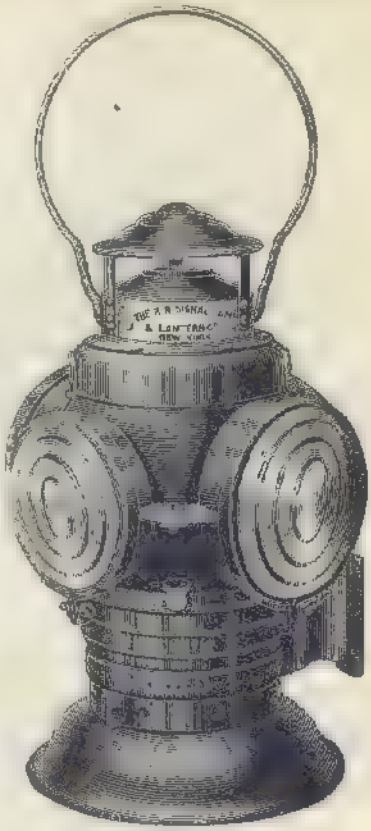


Fig 1242.

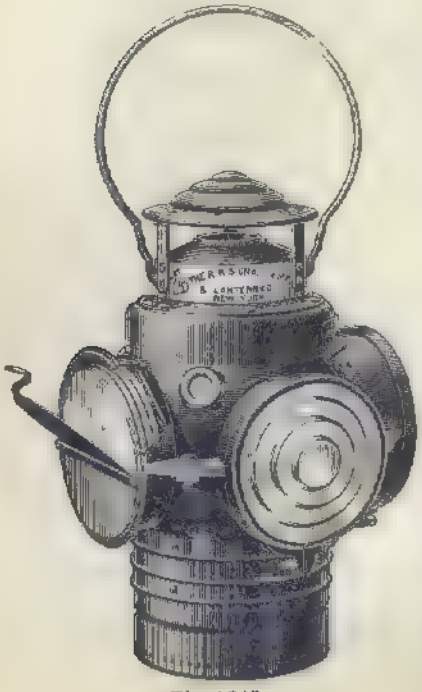


Fig 1243.

## STANDARD "ARMSPEAR" CLASSIFICATION LAMP.

(Two Lenses)

With No. 22 Arm.

The Standard "Armspear" Classification Lamp is made with two lenses at right angles and attached to the engine by means of No. 22 Arm.

Other methods of attachment employed upon specifications.

Lenses are white, and the classifying signals are given through the familiar method that has in the past been employed in the "Blizzard" Engine Lamps

Object of departure from the old "Blizzard" lamp is strength, therefore cheapness.

Prize, per doz.....$ .... . .
Sockets, per doz.. . . . .. .. .. .. .... $ .. .. .. .

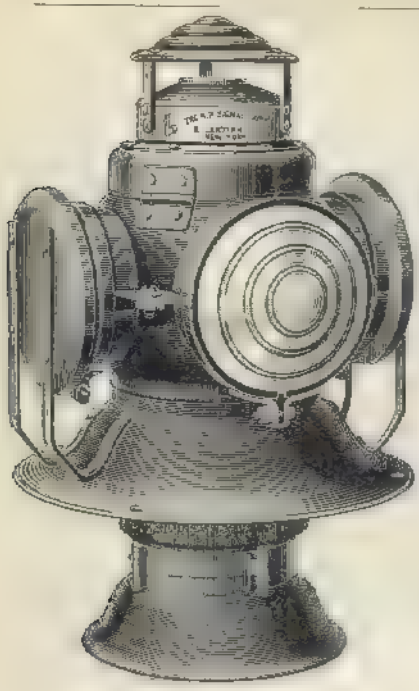


Fig 1244

## "ARMSPEAR" SEMAPHORE LAMP.

Fitted with two 4 in., two 4½ in., two 5 in., or two 5⅝ in. lenses, or one of either of the above sized lenses and one small back light.

The "Armspear" pattern, as the cut suggests, is quite a radical departure from the usual method of applying the lamp.

The arm with which it is provided registers with the socket that holds the lamp rigidly without lost motion, therefore insuring the projection of the rays at all times in the direction desired

The ordinary bracket attachment can be employed if required.

Price, per doz. ..... $.....
Sockets, per doz . ... . ..... ... .....

## "ARMSPEAR" CABOOSE DECK LAMP.

This lamp is virtually a four lens "Armspear" Marker Lamp suspended in a collar or plate within which it revolves as in an arm.

The collar or plate is attached to the roof and covers the hole, admitting the lower portion of the lamp into the interior of the caboose. From the interior the lamp is readily revolved to display such signals as the "Train Rules" may require.

The operator knows the position of colors displayed, as they correspond with those at the base of the lamp.

Any combination of colors can be employed.

Fitted with or without blinders to cover side lenses, as desired.

Price, per dozen... . ..... . . $ ..... . ..

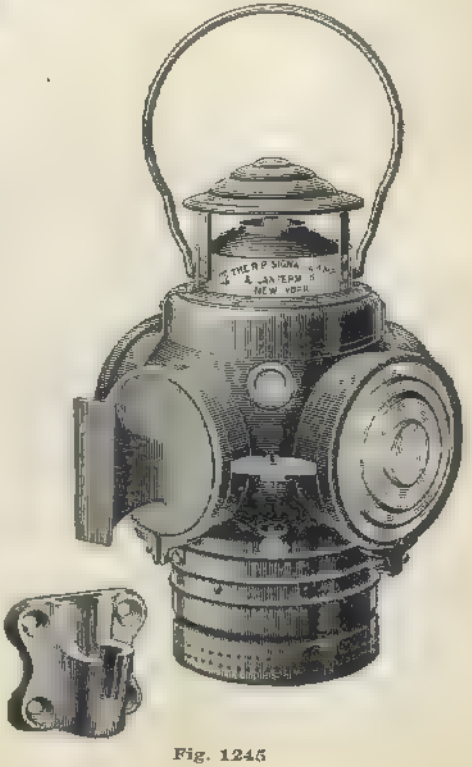


Fig. 1245

## WATER WHEELS.

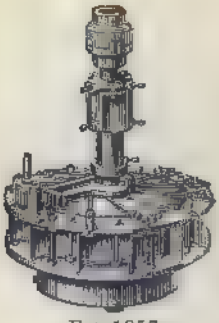


Fig 1357
Standard

The Leffel Turbine is a thoroughly reliable and practical wheel. Many years of experience in building them enables the manufacturers to adopt the most desirable improvements.

STANDARD

SPECIAL

SAMSON

built on both upright and horizontal shafts in a great variety of styles, affording the customer and user an opportunity to obtain a wheel having the most perfect adaptation to every purpose; a wheel unequaled in durability, unexcelled in performance and unquestioned in excellence.

Fig. 1357 a
Samson.

### The Samson Turbine Water Wheel.

The strongest and most powerful water wheel now built. The newest, latest and most perfect design of the Improved Leffel Wheel.

Parties ordering should give full information as to head, volume of water available and horse power required. Details and prices furnished upon application.

## COLUMBUS VERTICAL GASOLINE ENGINE.

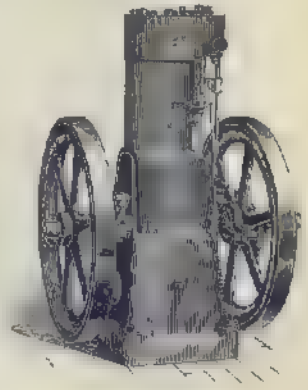


Fig. 1358.

The engine shown in the illustration is a **four cycle engine** self contained in all particulars. It is provided with **gasoline receptacle in the base,** the same being all connected up with a pump and feeding mechanism before shipment. The engine is shipped with electric sparking device all complete and with necessary size water tank and pipe for connecting it close to the engine, so that when the purchaser receives it, it is necessary only to screw in a short piece of pipe to connect engine to tank and it is ready for business. Particular attention has been given in the construction of this engine to provide very large and **liberal water jacket.** Another feature, the **sparking points** can **be cleaned** while the engine is running, by turning them and scouring them on each other. Still another feature is that of having a pump to deliver a **positive feed** of gasoline to the feed mechanism.

The engine can be run with either **gas or gasoline** and can be changed from one fuel to the other while engine is running. However, both sets of fixtures are not supplied with the engine unless so ordered, one set being charged for as an extra, but at a very low and reasonable price.

| Size | Floor Space | Price | Size | Floor Space | Price |
|---|---|---|---|---|---|
| 2-H. Power | 28x28 ins. | $ | 4-H Power | 34x34 ins. | $ |
| 2½ " | 29x29 " | | 4½ " | 35x35 " | |
| 3 " | 30x30 " | | 5 " | 36x36 " | |

Special Catalogues and net prices upon application.

## "COLUMBUS" GASOLINE ENGINES.

**For Electric Lighting, Irrigating, Water Works, Ventilating, Flour Mills and Grain Elevators, Refrigerating, Farm Work, Saw Mills, Factories, Cotton Mills, Railroad Water Stations, Mining, Passenger and Freight Elevators, Etc., Etc.**

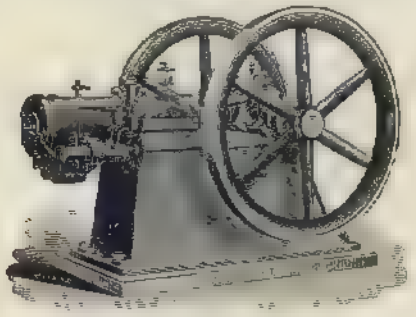


Fig. 1359.

Constructed of the very best material, equally adapted to use gas or gasoline, and to change from one to the other without stopping.

Avoids compression and also prevents the electric spark being made when not required, thus saving the exertion of the fly wheels, batteries and electrodes.

So arranged that the speed can be changed while the engine is in motion.

Closet regulation, accomplished by a sensitive governor, added by heavy fly-wheels properly balanced, and built in strict accordance with mechanical principles.

Table of Sizes, Power, Etc.

| Engine No. | Actual H. P. | Speed R. P. M. | Floor Space in Inches. | Driving Pulley Diameter Face | Approximate Weight. |
|---|---|---|---|---|---|
| 1 | 5 | 250 to 325 | 28 x 59 | 12 x 8 | 2,200 |
| 2 | 8 | 250 to 300 | 30 x 65 | 18 x 12 | 3,000 |
| 2½ | 10 | 250 to 300 | 30 x 67 | 18 x 12 | 3,500 |
| 4 | 15 | 225 to 275 | 35 x 79 | 24 x 16 | 4,300 |
| 5 | 20 | 175 to 225 | 42 x 100 | 30 x 10 | 5,500 |
| 6 | 25 | 175 to 225 | 42 x 103 | 33 x 10 | 9,000 |
| 7 | 30 | 150 to 200 | 52 x 118 | 36 x 12 | 10,000 |
| 8 | 35 | 150 to 200 | 52 x 120 | 42 x 12 | 11,000 |
| 9 | 40 | 150 to 180 | 58 x 130 | 42 x 14 | 13,000 |
| 10 | 50 | 150 to 180 | 58 x 132 | 48 x 14 | 15,000 |
| 11 | 60 | 150 to 180 | 58 x 134 | 48 x 14 | 16,000 |

Prices upon application.

State horse power required and use to which engine is to be put.

Engines are fitted to run on Gas or Gasoline or on both if so specified in order.

### General Description.

**Operation.** Upon the first out stroke of the piston the cylinder is filled with gas and air, mixed in their proper porportion, and upon the return stroke this mixture is compressed, and just as this stroke is being completed the electric spark is made within the cylinder, which ignites the mixture, causing the explosion to take place, forcing the piston on its second out stroke, and as this stroke is being completed the piston uncovers a port allowing the burnt gases to escape, and just before the piston closes this port upon the return stroke, the exhaust valve is opened allowing the piston to empty the cylinder of all burnt gases at the completion of the second in-stroke.

## RRENTISS VISES.

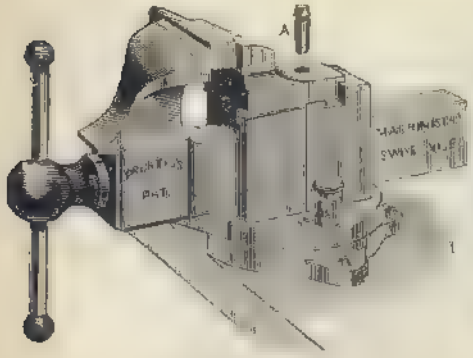


Fig. 355, Swivel

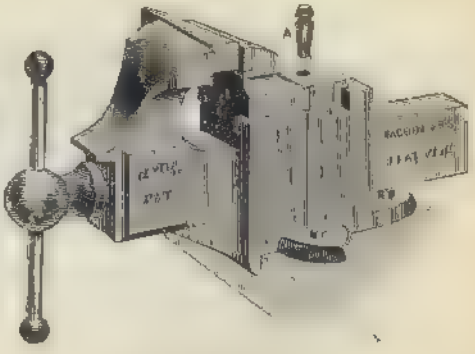


Fig. 356, Stationary.

Price List.

| Width of Jaw | Weight Stationary Vise | Weight Swivel Vise | Opens | Price Stat'ry Vise | Price Swivel Vise |
|---|---|---|---|---|---|
| 1¾ inches (Watchmakers') | 2 lbs. | 2½ lbs. | 1¾ in. | $ 3.50 | $ 4.50 |
| 2 inches (Jewelers') | 3½ lbs | 4½ lbs. | 2 in. | 4.00 | 5.00 |
| 2⅝ inches ("Amateur") | 13½ lbs. | 17 lbs | 3½ in. | 5.50 | 6.75 |
| 3½ inches (Machinists') | 28 lbs | 32 lbs. | 4⅜ in. | 7.00 | 8.50 |
| 4 inches (Machinists') | 41 lbs. | 46 lbs. | 5¼ in. | 9.00 | 10.50 |
| 4½ inches (Machinists') | 54 lbs. | 65 lbs. | 6 in. | 10.50 | 12.50 |
| 5¼ inches (Machinists') | 96 lbs. | 109 lbs. | 8 in. | 17.00 | 18.00 |
| 6 inches (Machinists') | 146 lbs | 168 lbs. | 9 in. | 24.00 | 27.00 |
| 7 inches (Machinists') | 184 lbs. | 207 lbs. | 11 in. | 30.00 | 35.00 |

The back jaw of this vise is adjustable, and in use instantaneously conforms by automatic action to any angle.

## STANDARD VISES.

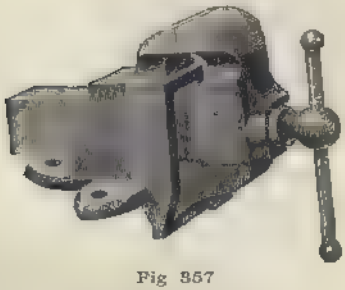


Fig 357

Stationary Bench Vise.

| | Width Jaws | Jaws Open | Weight | Price |
|---|---|---|---|---|
| No 87 | 2 in. | 2 in. | 5½ lbs | $ 3.25 |
| No 88 | 2½ in. | 2¾ in. | 9 lbs | 4.25 |
| No 89 | 3 in | 3½ in | 16 lbs | 5.50 |
| No 90 | 3½ in | 4 in | 28½ lbs | 7.10 |
| No. 91 | 4 in. | 5 in. | 38 lbs | 8.50 |
| No 92 | 4½ in. | 6 in | 50 lbs | 10.00 |
| No 93 | 5 in | 7 in | 65 lbs | 13.00 |
| No 94 | 5½ in. | 8 in | 90 lbs | 18.50 |
| No 95 | 6 in | 9 in | 120 lbs | 25 00 |
| No 96 | 7 in. | 10½ in. | 180 lbs | 30.00 |

Fig. 358.

Swivel Bench Vise.

| | Width Jaws | Jaws Open | Weight | Price |
|---|---|---|---|---|
| No 77 | 2⅛ in | 2 in | 6¼ lbs | $ 3.50 |
| No. 78 | 2½ in. | 2¾ in | 9½ lbs | 5.00 |
| No. 79 | 3 in. | 3¼ in | 18 lbs | 7.00 |
| No. 80 | 3½ in. | 4 in | 28½ lbs | 9.75 |
| No. 81 | 4 in | 5 in. | 45 lbs | 12.50 |
| No 82 | 4½ in. | 6 in. | 60 lbs | 12.50 |
| No 83 | 5 in | 6¼ in. | 80 lbs | 16.00 |

## LEWIS' PATENT VISES.

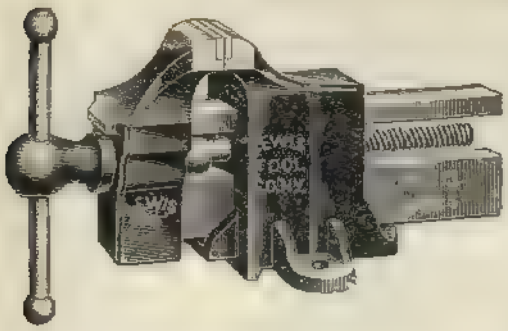


Fig. 359.

**Solid Jaw Stationary Bottom Vises.**

For all Iron Workers.

| No. | Width Jaw. Ins. | Opens Ins. | Weight Lbs. | List Price |
|---|---|---|---|---|
| 35 | 3 | 4 | 22 | $6.00 |
| 37 | 3½ | 5 | 28 | 7.00 |
| 39 | 4 | 6 | 48 | 8.50 |
| 41 | 4½ | 7 | 60 | 10.00 |
| 43 | 5 | 8 | 82 | 13 50 |
| 45 | 5½ | 9 | 103 | 18.50 |
| 47 | 6½ | 10 | 135 | 25 00 |
| 49 | 7½ | 12 | 183 | 35 00 |

**Self-Adjusting Jaw Machinists' Swivel Bottom Vises.**

For Railroad Shops, Machinists and all Iron Manufacturers

| No. | Width Jaw, Ins. | Opens Ins. | Wright Lbs. | List Price |
|---|---|---|---|---|
| 4 | 2½ | 3½ | 22 | $6 75 |
| 6 | 3 | 4 | 29 | 7 50 |
| 8 | 3½ | 5 | 38 | 8.50 |
| 10 | 4 | 6 | 60 | 10 50 |
| 12 | 4½ | 7 | 78 | 12 50 |
| 14 | 5 | 8 | 120 | 18 00 |
| 16 | 5½ | 9 | 142 | 21 00 |
| 18 | 6½ | 10 | 185 | 27.00 |
| 20 | 7½ | 12 | 222 | 35.00 |

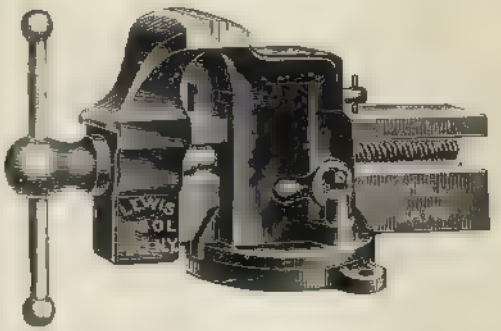


Fig. 360.

## UNIVERSAL JIG VISE FOR DRILLS.

Made in three sizes.

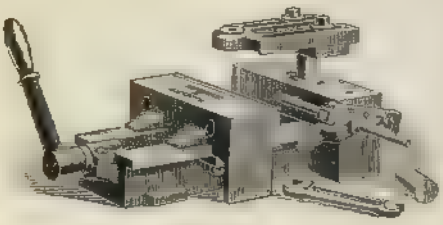


Fig. 361.

| | |
|---|---|
| No. 3. Jaws 6 in. long, 1½ in. deep, will open 4½ in.; weight, 32 lbs. Price | $20.00 |
| No. 4. Jaws 9 in long, 2 in deep, will open 7 in weight, 65 lbs Price | 25 00 |
| No. 5. Jaws 12 in long, 2½ in deep, will open 9½ in weight, 135 lbs Price | 30 00 |

## CHAIN DRILL.

This drill can be either fed automatically or with a hand feed, at the option of the operator. The automatic feed is self-regulating, according to the size of the drill, feeding very rapidly or slowly, as may be desired.

| | |
|---|---|
| No. 17. Chain drill with plain socket; ½ in. hole with set screw. Each | $1.25 |
| No. 18. As above, provided with Barber Chuck for holding square bit shanks. Each | 1.75 |
| No. 19. Same as No 17, provided with three jawed chuck for holding round shanks from 0 to ½ inch | 3.75 |

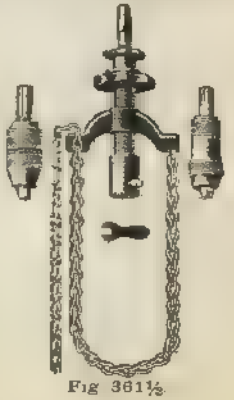


Fig 361½

## LIGHT INSPECTION CARS.

### SINGLE-SEATED CAR.

This cut shows single-seated car, equipped with luggage basket and tool pouch. This car is made for any width of track. When built for standard (4 feet 8½ inches) gauge, or wider, the connection between the front arch and the diamond frame is such that the former may be readily folded back under the latter, by the removal of two nuts, thus reducing the car to a more convenient size for storing or handling. The cars can be readily loaded into a baggage car, however, without folding.

Fig. 1088

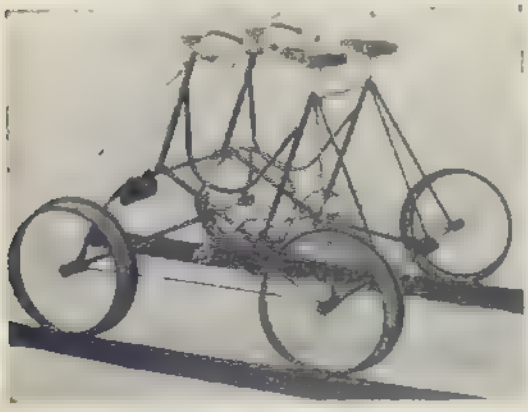


Fig. 1089.

### DOUBLE CAR.

This car is made for all gauges above and including 36 inches, but cannot be built for a narrower gauge than 3 feet.

Where a two-seated car is wanted for use on a track of narrower gauge than 36 inches, we recommend the single car fitted with the extra front seat.

The double car is the swiftest railway vehicle made, except those propelled by steam or electricity.

This car runs so lightly, that one rider can operate it with but little more exertion than is required for the single car.

### Details.

**Interchangeable Parts.** -Any part from single ball in bearings to entire frame, may be duplicated.

**Weight.**—Single car, 60 pounds; double car, 75 pounds.

**Speed** —Fifteen miles per hour is easily made under ordinary conditions, and customers report short runs at thirty and even thirty-five miles per hour. A given speed is more easily attained with our cars than with others, owing to their perfect alignment, lightness and true bearings.

**Durability** —The cars are strong and durable, but in order to get the best results they should be handled with due regard for their light construction.

**Noiseless.**—No annoyance from rattling or ringing. Approaching trains may be heard in time to avoid danger.

**Reversible.**—Course can be reversed almost instantly, without dismounting, and the car runs backward just as well as forward—an exceedingly convenient feature.

**Folding** —Standard gauge single cars fold conveniently. Double and narrow gauge cars do not fold.

Special catalogues and prices furnished upon application.

## HAND CARS.

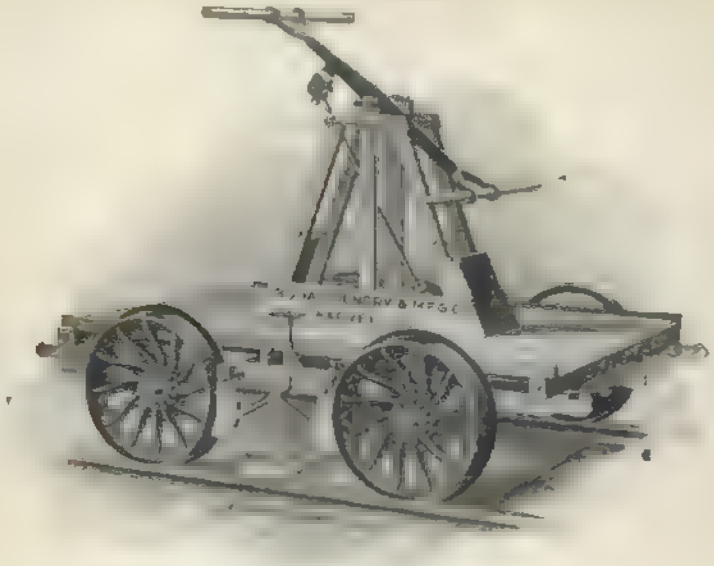


Fig 1090.

### No. 1. STANDARD HAND CAR, WITH STEEL WHEELS.

Standard gauge, platform 6 feet long by 4 feet 5 inches wide, wheels 20 inches in diameter; axles 1½ inches in diameter; weight, 500 pounds

Price..... $ .. ..

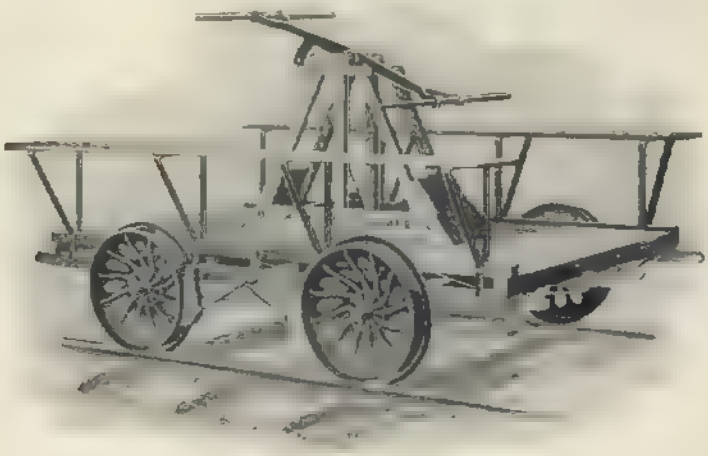


Fig. 1091.

### No. 4. HAND CAR, WITH SEATS.

Standard gauge steel wheels, platform 7 feet 6 inches long by 4 feet 5 inches wide; weight, 600 pounds.

Price.. ..... $ .. .. ..

## PUSH CARS.

Fig. 1092
No. 8. Push Car, with Steel Wheels.

Standard gauge; platform 7 feet long by 5 feet 7 inches wide; wheels 20 inches diameter, machine steel axles 1½ inches diameter; weight, 450 pounds. Price, $.

## RAILWAY VELOCIPEDES.
### Wood Frames, Wood Filled Wheels.

No. 12. Cut gears, net weight 150 lbs. Rim adjustable to different gauges, supplied without extra cost if so ordered initially.
Price... . .. .. . $.. . ..

No. 13. With seat and foot rest behind operator for second person. Net weight 160 lbs., built any gauge.
Price... . .. . . . $. . . ..

No. 14. With tray for wire and tools, suited for three people. Net weight 195 lbs., built any gauge.
Price.....$.....

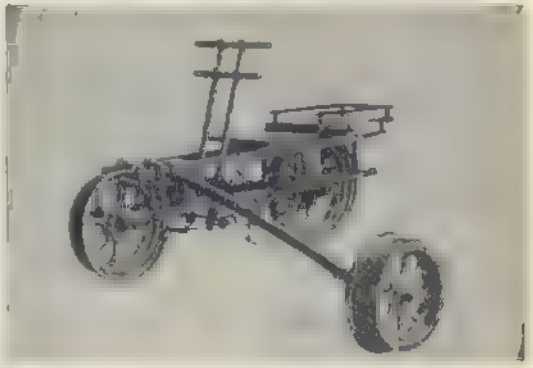


Fig. 1093

No. 15. Has folding seat to accommodate one rider or two, either or both propelling. Net weight 165 lbs., built any gauge. Price. . .. . .. .. .$. .....

## TRACK-LAYING CARS.

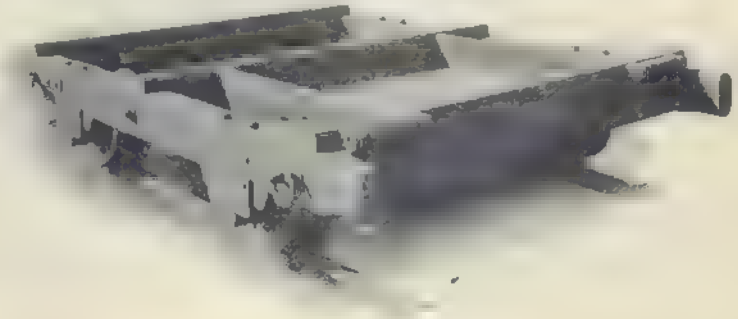


Fig. 1094
No. 10. Track Laying or Rail Car

Standard gauge size, 8 feet long by 6 feet 6 inches wide, chilled wheels 16 inches in diameter, with 6 inch tread, axles 2¾ inches in diameter, capacity 10 tons; sills, 4x8 inch oak cross sills plated with iron; car fitted with chain and tool boxes, and has two rollers at each end. Price . . . . . $. .

## BUDA PATENTED STEEL WHEEL.

For Section Hand and Push Cars.

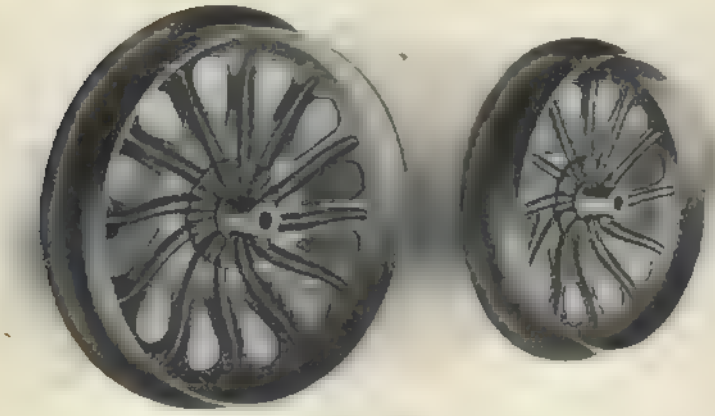


Fig. 1095

Made from a single plate of steel. Guaranteed the strongest and most durable light wheel yet offered in the market.

1st. The reinforcement of tread and flange insures longer service.

2d. The point of contact with rail being on line through center of wheel, and the hub project on being on outer side of plate, insures greater strength to withstand crushing and lateral strains.

3d. Metal is formed into required shape by drawing and spinning, and consequently not subjected to unnatural strains.

We make a specialty of furnishing these wheels adapted for use under any style of hand or push car.

We are also prepared to furnish Steel Wheel, Insulated for use on roads having electric block-signals with track circuit.

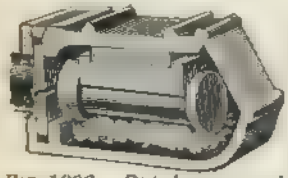


Fig. 1096. Cut shows guard in position

## THE HARRISON DUST GUARD.

Guaranteed to save their cost, and to be the most efficient guard on the market.

Insures safety and economy.

Prices upon application

## ELECTRIC TRANSFER TABLE.

For Locomotive and Car Shops.

Fig. 1097. 40 tons capacity, 25 foot span

We are prepared to furnish Electric Transfer Tables of any capacity and length. Inquiries should state capacity and speed, length of rail required, character of electric current available and whether wanted with or without cabin over operating mechanism.

## No. 2 BAND SAWING MACHINE.

With 36-Inch Wheels.

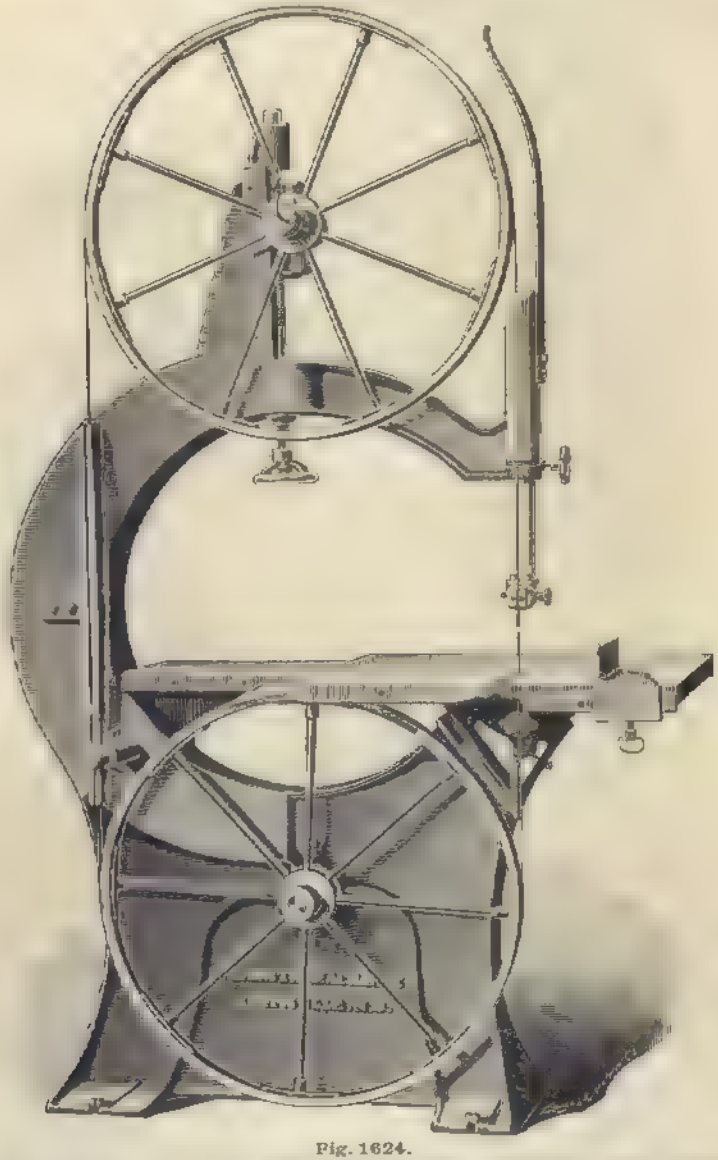


Fig. 1624.

Each machine is furnished with scarfing frame soldering tongs, necessary wrenches and one saw blade.

Roller guides, if preferred, can be furnished at a small additional cost.

Data as to Size, Speed, Power, Etc.

| Size | Weight in Pounds | Floor Space Required | Size of F. & L. Pulleys on C. S. | Speed of C. S. Revs. | Average H. P. Power | List Price |
|---|---|---|---|---|---|---|
| 36 ins. | 1500 | 3 ft. 6 in. x 2 ft. 9 in. | 12in. x 4in. | 300 | 1½ to 3 | $150.00 |

Fig. 1625

## IMPROVED PENDULUM OR SWING SAW.

The machines are usually made in three different lengths, measuring from the ceiling to center of saw, as follows: 6 feet 9 inches; 7 feet 3 inches; and 7 feet 5 inches. Those in stock are usually of the first named length.

Any variation in the above lengths will cost $3.00 extra net; and any additional length will cost $5.00 a foot net extra, and they may be made of any length up to 10 feet

A stop attachment is provided for the table if desired at a small extra price.

Improved Pendulum or Swing Saw.

| Size of Saws | Weight in lbs. | Floor Space Required | Size of T and L Pulleys on C. S | Speed of T & L. Pulleys | Average Horse Power | List Prices |
|---|---|---|---|---|---|---|
| 16 inches | 350 to 475 | Size of Table | 10 in. x 6 in | 700 Revs | 1½ to 2 | $65 00 |
| 20 inches | 350 to 475 | Size of Table | 10 in. x 6 in | 600 Revs. | 1½ to 2 | 70 00 |

Stop Attachment, with 4 feet index . . . . . $5.00
Extra length of Index, per foot . . . . . .50

## SILVER BAND SAWS.

Combined Foot and Belt Power.

| Size Machine | Distance between Saw and Frame | Size Table | Price with Foot Treadle | Price with T. and L. Pulleys |
|---|---|---|---|---|
| 20 inch | 20 inches | 20x24 in. | $60.00 | $50.00 |
| 26 " | 25 " | 20x24 " | 90 00 | 80 00 |
| 32 " | 31 " | 24x28 " | . | 105 00 |
| 36 " | 35 " | 28x32 " | . | 130 00 |

Each machine furnished with one saw blade, outfit for brazing, and Wright's Patent Non-Friction Roller Saw Guide, except 20 inch machine which is furnished with hardwood guides.

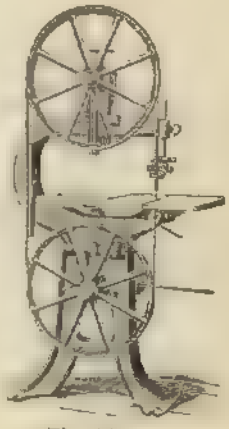


Fig 1626

## NEW No. 2 UNIVERSAL SAW BENCH.

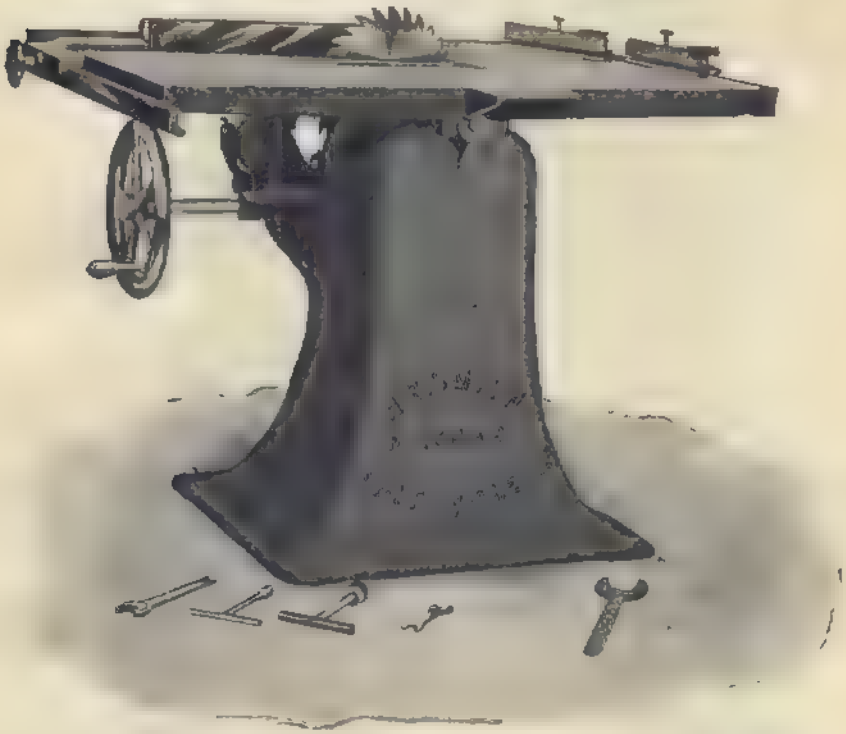


Fig 1627.

The table is 36 inches wide by 48 inches long, and tilts to 45 degrees for bevel sawing. The Machine may be fitted with a Boring Attachment.

| | |
|---|---|
| Size | No. 2 |
| Wt. in lbs including Countershaft | 950 |
| Floor Space required | 4 ft. x 4 ft |
| Size of T. & L. Pulleys on C.S., | 9 in. x 4 in |
| Speed of Countershaft. | 500 Revs |
| Average Horse Power. | 2½ to 3½. |
| List Price | $125.00 |
| Boring Attachment, including bracket and sliding table, extra | $ |

## NO. 4. POST BAND SAW.

It can be attached to any ordinary post or wall plate. It has patent combined weight and spring for maintaining a uniform tension. Also patent shipper which moves the belt on to the tight pulley gradually, but moves it off instantly. Wheels 30 inches in diameter. The wood rims have no joints across the periphery. Tables, of either wood or iron, are 31 inches square and can be set at an angle. The guide can be raised 12 inches. It will carry any saw up to 1 inch, 16 feet, 5 inches long. One saw, brazing clamp and tongs furnished with each machine. Countershaft has tight and loose pulleys, 12 in. diameter, 3-inch face, and should run 600.

Price. . . . . $. .

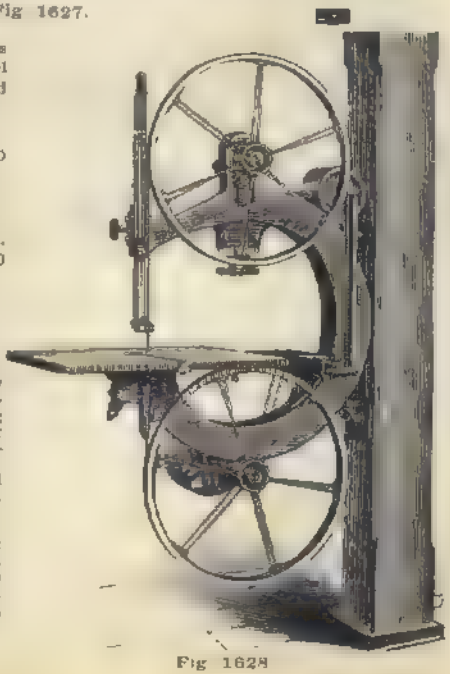


Fig 1628

Fig. 1629
Lightning Jig Saw. Plain Table.

## LIGHTNING JIG SAW.

**Equipment Supplied:**

These machines are provided with tight and loose pulleys on the crankshaft, and arranged with a belt shifter to start and stop by foot in the front. Stay-irons as shown and one half dozen scroll blades are furnished with each machine.

| Size of Table | Weight in Pounds | Size of T. & L. Pulleys on C. S. inches | Speed of T. & L. Pulleys | Average Horse Power | List Price |
|---|---|---|---|---|---|
| Plain | 400 | 6 x 2¾ | 1000 Rev. | 1 to 2 | $ |
| Tilting | 450 | 6 x 2¾ | 1000 Rev. | 1 to 2 | |

## WRIGHT'S IMPROVED NON-FRICTION BAND-SAW GUIDE.

The only guide having 1½ inch revolving bearing for saws without crystallizing or disturbing their temper.

Are made as upper and under guide, to fit any make machine, and to accommodate saws from ⅛ to 10 inches wide. Fitted to any make machine.

### Band Saw Guide Price List.

| | |
|---|---|
| No. 1 Guide, accommodating saws from ⅛ to 1¼ in. | $10 00 |
| Special Lower Guide accommodating saws from ⅜ to 1¼ in. | 8.00 |
| No. 2 Upper and Lower Guides, accommodating saws from ⅛ to 2½ in. | 15 00 |
| Upper and Lower Guides, accommodating saws from 1 to 5 in. | 25.00 |

These prices include special fittings for all standard make machines

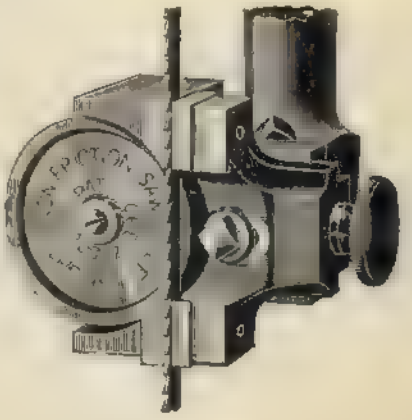


Fig. 1630

## "ARMSPEAR" SWITCH LAMP.

Spring Bottom "Direct Contact."

Built with either two 4-in. safety lenses and two 4½-in. danger lenses of desired colors, or two 5-in. safety and two 5⅝-in. danger lenses. (Arranged with spring to relieve the lamp from the jar of a passing train.)

This contact, when used on a tip rectangular in form and slightly tapered, guarantees the proper placing of the lamp and its being held in an upright position.

In the "Armspear" Switch lamps the safety lense is smaller size than the danger lens, thus securing the proper location of colors in replacing broken lenses.

This same lamp is built for what is known as the "Fork" attachment. We consider it, however, the most unreliable signal device in the market. It furnishes no guarantee that none but the proper signal can be displayed. Especially does this refer to the lamps used on the round time forks, which through carelessness or design may be made to show a safety signal on a switch wide open.

With our "Direct Contact" lamp on a properly built tip, the color thrown must at all times show the correct position of the switch.

Price, per dozen ..... $.....

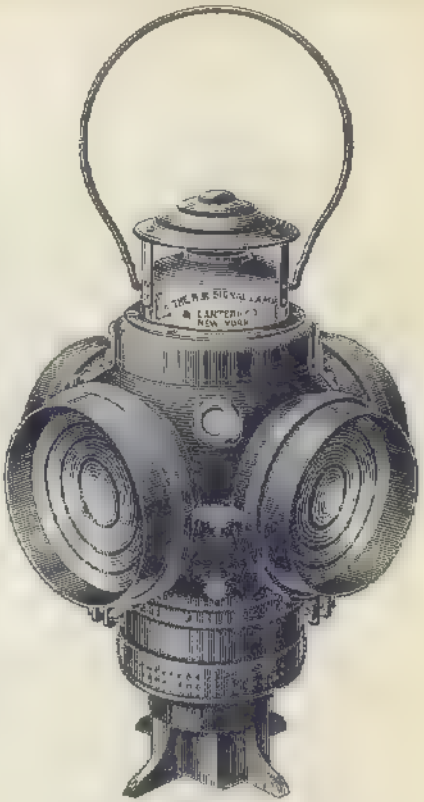


Fig. 1246. Direct contact "Armspear" Switch Lamp.

## TRAIN ORDER SIGNAL.

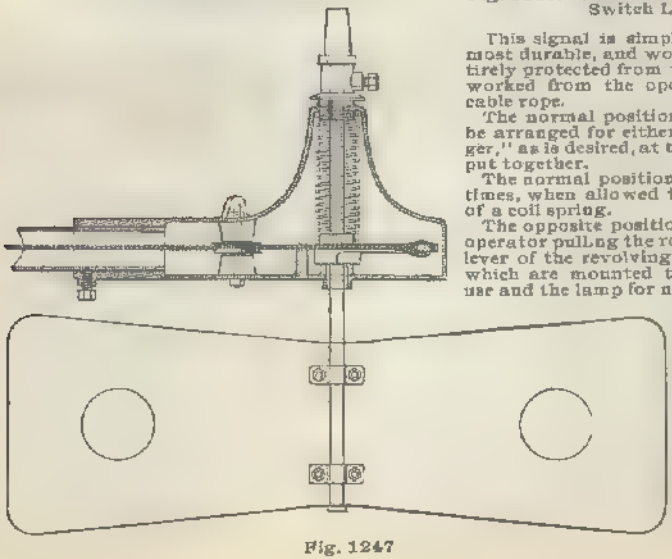


Fig. 1247

This signal is simple in construction, most durable, and working parts are entirely protected from the weather. It is worked from the operator's desk by a cable rope.

The normal position of the signal can be arranged for either "safety" or "danger," as is desired, at the time of its being put together.

The normal position is restored at all times, when allowed to act, by the force of a coil spring.

The opposite position is secured by the operator pulling the rope attached to the lever of the revolving vertical shaft on which are mounted the target for day use and the lamp for night use.

The lamp for use at night is of the best and latest pattern, and can be depended upon in all stress of weather. Such colored lenses used in the lamp as are desired. We furnish the signal complete, except the two-inch pipe and guy ropes

Price, each, $ . .

## GLOBE TUBULAR LAMPS.

With Automatic Extinguishers.

Fig. 1248. Hanging Lamp.

Fig 1249. Street Lamp.

No. 3 Globe Tubular Hanging Lamp . . . . . $6.00
No. 3 Globe Tubular Street Lamp . . . . . 6.00

## TUBULAR LAMPS.

For Mills and Railroad Stations.

Fig 1250. Triangular.

### SQUARE LAMP.

No 1 Square Lamp, 1 in Wick, 7 in. Silvered Reflector

Price, each.....$5 50

No. 2 Square Lamp, 1½ in Wick, 8 in. Silvered Reflector.

Price, each $6 50

No. 3 Square Lamp, 1½ in. Wick, 12 in. Silvered Reflector.

Price, each ..... $8 50

### TRIANGULAR LAMP.

No. 4 Tubular Triangular, each..... $8 50

Fig. 1251. Square.

# BURNERS.

## LARD OIL RATCHET BURNER.

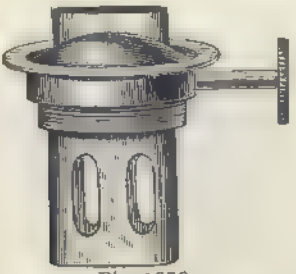


Fig. 1252.

| | Per doz |
|---|---|
| No 1. ⅞ inch diam, thread, brass | $. |
| No. 1. Ex. 1⅛ in. diam thr'd. copper | |
| No 1. Ex. Long Shaft 3⅝ in. | |
| No. 1. Ex. Long Shaft, 4½ in. | |
| No 2 1¼ inch diam. thread | |

## OIL SCREW FLAT TUBE BURNER

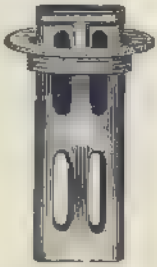


Fig. 1253

| | Per 1,000 |
|---|---|
| No. 1. ⅞ inch diam. thread copper | $ |
| No. 1. Ex 1⅛ in diam thread copper | |
| No 2 1¼ inch diam thread copper | |

## BEACON BURNER.

Fig 1254.

Thread diameter, ⅞ inch Takes B or No. 2 wick.
Price, per gross $

## DUDLEY BURNER.

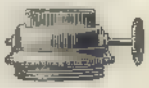


Fig. 1255.

| | Per gross |
|---|---|
| With Collar. | $. |
| Without Collar. | |

## CALLENDAR BURNER.

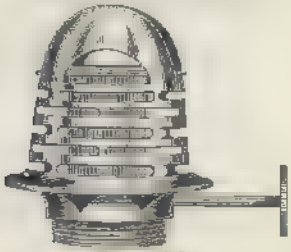


Fig 1256

| | Per doz |
|---|---|
| No. 0. Brass, ⅞ inch diam. thread | $ |
| No 1. Brass, ⅞ inch diam. thread short shaft | |
| No 1 Brass, ⅞ inch diam. thread long shaft, 3⅝ in. | |
| No 1 Brass, ⅞ inch diam thread long shaft 4 in. | |
| No 1 Brass, ⅞ inch diam thread long shaft 4½ in. | |

## "ARMSPEAR" BURNER.

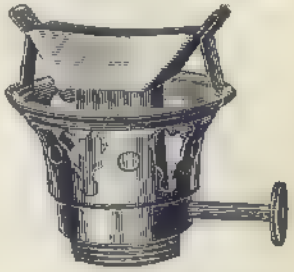


Fig. 1256½. Short shaft.

Material, steel. Thread diameter, ⅞ in.

| | Per doz |
|---|---|
| Short shaft | $. |
| Long shaft, 2½ in. | |
| Long shaft, 4 in. | |

## BURNERS.

### DUAL.

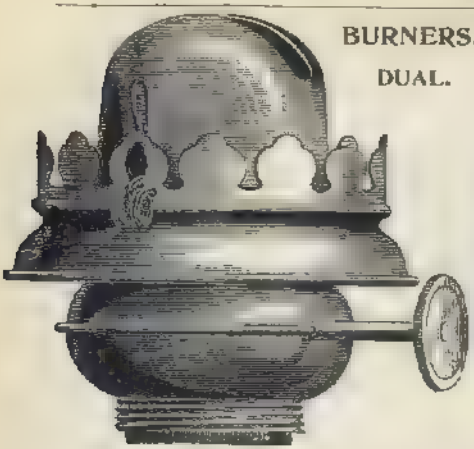


Fig. 1257. Dual No. 2.

Fig. 1258. Dual No. 3.

| | | | |
|---|---|---|---|
| *No 2. Double Spring, per doz.. | $..... | †No. 3. With skirt for Central Draught Car Lamps, per doz. | $.. |
| *No 2 Single Spring per doz | ... | | |
| *No 2 With Screw, per doz.. | ..... | | |

* Takes Common Lip Chimney. † Takes No 3 Dual Chimney and Wick

### SUN HINGE.

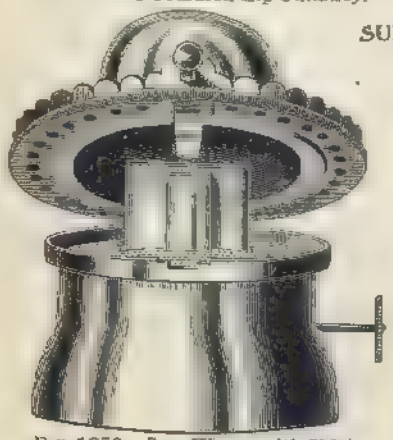


Fig. 1259. Sun Hinge, with Skirt.

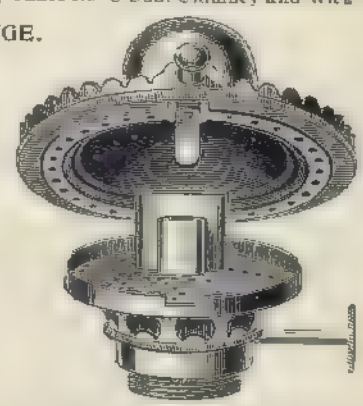


Fig. 1260. Sun Hinge, without Skirt.

#### Price List Sun Hinge Burners.

| Sun | Wick | Diam. Thread | Per Doz |
|---|---|---|---|
| No 1 .. | $\frac{5}{8}$ in | $\frac{7}{8}$ in. | $.. . |
| No. 2 . | 1 in | 1¼ in. | .. . |
| No 2 Hinge | 1 in | 1¼ in. | ... |
| No. 3 " | 1½ in | | |

Takes Sun Hinge Chimney.

### MOEHRING.

Fig. 1261. Moehring Burner.

Takes Moehring Chimney and Moehring Wick Fits No. 2

| | |
|---|---|
| No. 3, per doz..... | $..... |
| No. 3, Center Tube, per doz. ..... | ..... |

### TUBULAR LANTERN.

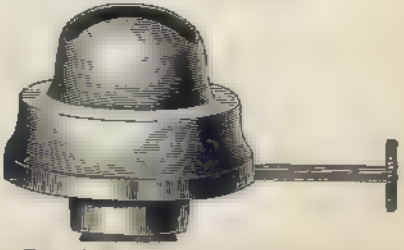


Fig. 1262 Tubular Lantern Burners

| | | | |
|---|---|---|---|
| No. 0. Brass | No 1 Wick. | Per Doz | $ . . . |
| No. 2. " | No 2 " | " | . . . |
| No. 3. Street Lamp, | | " | . . . . |

## CHUSE HIGH SPEED AUTOMATIC CUT-OFF ENGINE.

The "Chuse" High Speed Engine is an improved, self-contained, automatic cut off engine, combining strength durability and economy. It's design and proportions are the result of many years experience and the best modern practice

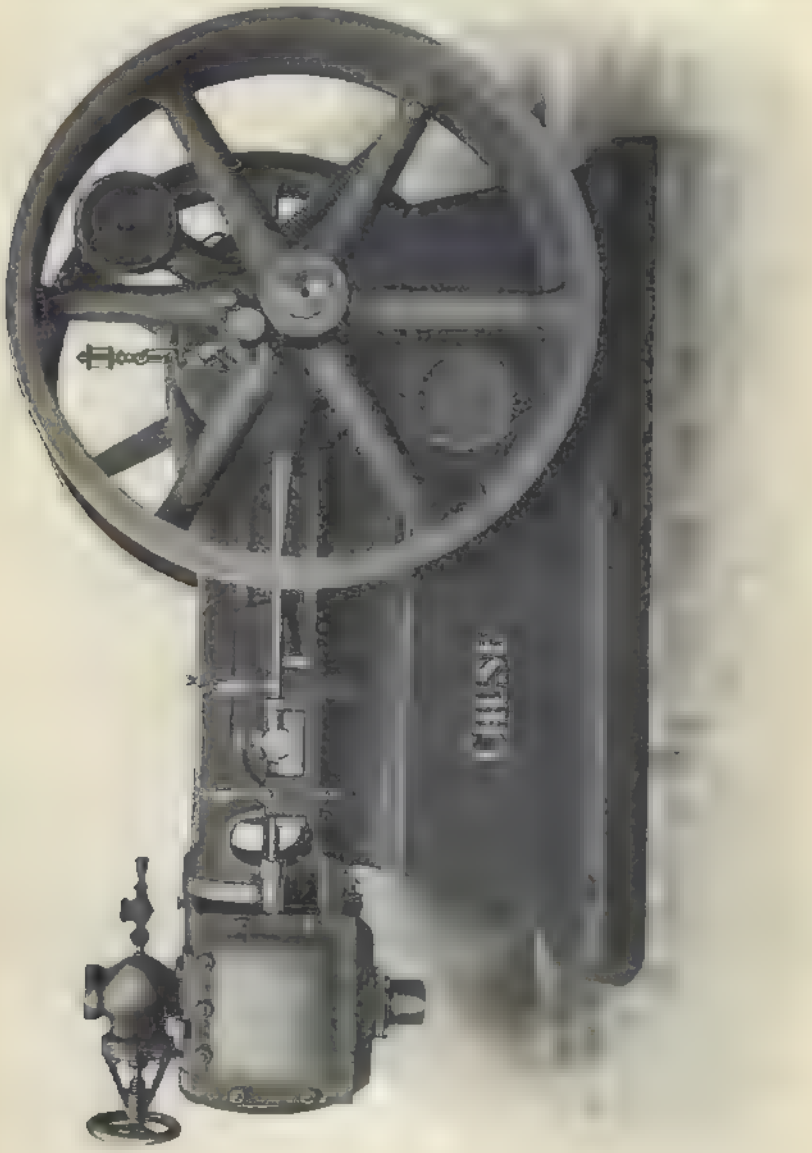



Fig 1385

The "Chuse" Engine is adapted to all electrical purposes, also suitable for mills, factories and other power purposes.

These engines are made to order for direct connection to dynamo of any make.

## BROWNELL TWENTIETH CENTURY AUTOMATIC ENGINE.

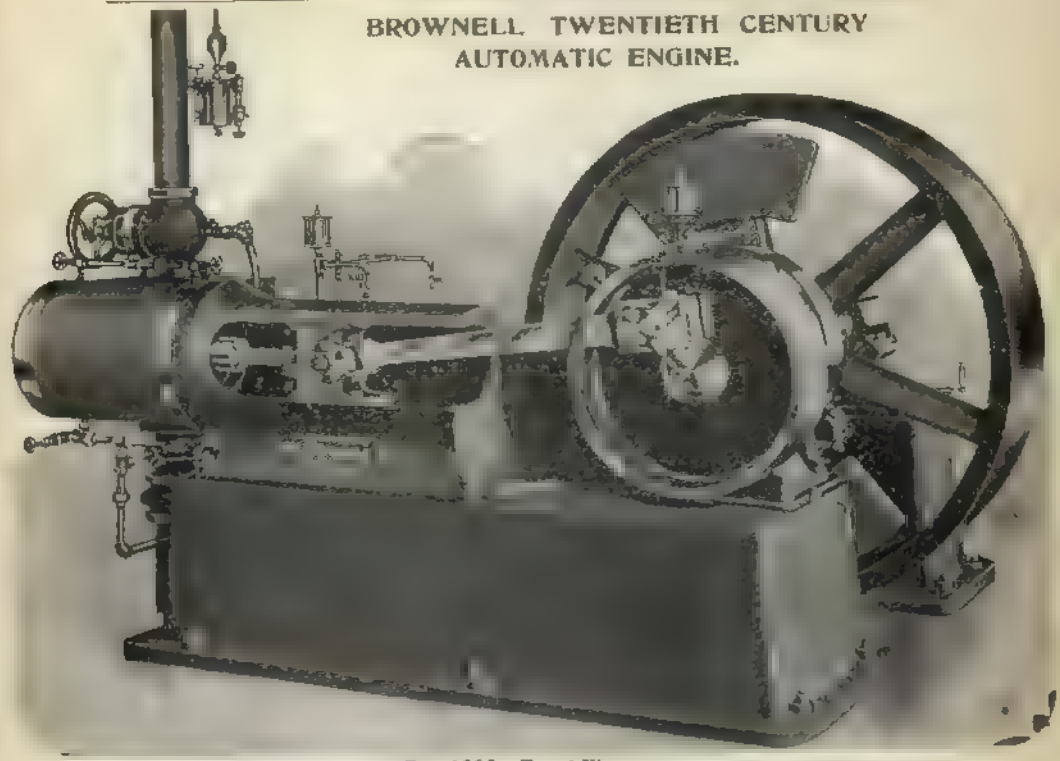


Fig. 1383. Front View

### Description

The engine illustrated herewith combines in simple and practical form the improvements of the best steam engine designers of the past century. Embodying as it does all real advances made along this line up to the present time, it may aptly be termed a TWENTIETH CENTURY ENGINE.

**THE BED OF THE ENGINE** is a modification of the well known **Tangye type,** the principal change being in the adoption of the Corliss type of crosshead, which is unquestionably the most meritorious form of construction. The main bearings are unusually liberal in proportions and are provided with oil reservoirs from which the bearings receive at all times a large quantity of oil. The arrangement is such that all waste oil is caught and returned to reservoir, making the system highly economical.

**THE GOVERNOR** used is manufactured by license under the **Rites-Carpenter-Smith Patents** and is what is now usually known to the trade as the **Rites Inertia Governor.** This governor combines in simple and efficient form both the centrifugal and inertia elements, making what is conceded by all experts the best speed regulating device ever applied to a steam engine.

**THE VALVE** employed is of the well known box type, being a thin rectangular ported plate working between the seat and a pressure plate. The valve is **absolutely balanced,** and is **double ported** for both steam and exhaust, thereby giving ample port opening for the admission of steam and a free exhaust without back pressure. Means are provided for the relief of water charges in cylinder.

The engine throughout is first class in every detail as to material workmanship and finish. The engine is furnished either with or without sub-base as desired by purchaser or for direct connection to generator.

Every engine is carefully tested under steam at the factory to get proper regulation, speed and adjustment of all parts, and no engine is allowed to leave the testing room until its operation is satisfactory under every condition of load.

# THE "CHUSE" HIGH SPEED ENGINE.

## Latest Self-Oiling Engine for Electric Lighting Purposes.

Dimensions of Standard Engines. Simple, Single Valve.

| No. | Cylinders | | Revolutions per Minute | Horse Power at most economical rating | | Weight Complete | Diameter Pipes | | Size Wheels | | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Diam. ins. | Stroke ins. | | 90 lbs. Steam | 100 lbs. Steam | lbs. | Steam ins. | Exhaust ins. | Dia. ins | Face ins | |
| 2 | 7 | 8 | 350 | 24 | 27 | 3,500 | 2 | 2½ | 39 | 7 | $ |
| | | | 375 | 26 | 29 | | | | | | |
| 3 | 8 | 9 | 330 | 30 | 34 | 4,000 | 2½ | 3 | 42 | 8 | |
| | | | 350 | 34 | 40 | | | | | | |
| 4 | 9 | 10 | 310 | 44 | 50 | 4,800 | 2½ | 3 | 44 | 9 | |
| | | | 330 | 48 | 53 | | | | | | |
| 6 | 10 | 11 | 290 | 57 | 63 | 5,600 | 3 | 3½ | 48 | 10 | |
| | | | 310 | 61 | 67 | | | | | | |
| 7 | 11 | 12½ | 280 | 72 | 80 | 7,000 | 3½ | 4 | 54 | 11 | |
| | | | 300 | 78 | 86 | | | | | | |
| 8 | 12 | 13 | 270 | 90 | 100 | 9,000 | 4 | 4½ | 60 | 12 | |
| | | | 290 | 97 | 108 | | | | | | |
| 9 | 13 | 13 | 260 | 102 | 113 | 11,500 | 4½ | 5 | 60 | 13 | |
| | | | 280 | 109 | 121 | | | | | | |
| 10 | 13½ | 13 | 260 | 111 | 121 | 12,500 | 4½ | 5 | 60 | 13 | |
| | | | 280 | 117 | 130 | | | | | | |
| 11 | 14 | 14 | 250 | 122 | 136 | 14,000 | 5 | 6 | 66 | 14 | |
| | | | 275 | 134 | 149 | | | | | | |
| 12 | 15 | 14½ | 240 | 139 | 155 | 16,000 | 5 | 6 | 72 | 14 | |
| | | | 260 | 155 | ... | | | | | | |
| 13 | 15 | 15 | 230 | 138 | 154 | 19,000 | 5 | 6 | 72 | 15 | |
| | | | 255 | 154 | 171 | | | | | | |
| 14 | 16 | 16 | 225 | 164 | 182 | 20,000 | 6 | 7 | 78 | 16 | |
| | | | 260 | 182 | 202 | | | | | | |
| 15 | 17 | 16 | 225 | 188 | 206 | 21,000 | 6 | 7 | 78 | 16 | |
| | | | 240 | 198 | 220 | | | | | | |
| 16 | 17 | 18 | 200 | 186 | 206 | 28,000 | 8 | 7 | 84 | 18 | |
| | | | 225 | 204 | 226 | | | | | | |
| 17 | 18 | 18 | 200 | 207 | 231 | 29,000 | 7 | 8 | 84 | 18 | |
| | | | 225 | 233 | 258 | | | | | | |

### Description.

**The Engine Frame** is the latest improved pattern, oil-tight and dust-proof. It has two hand doors, by which the inner parts are accessible almost instantly. The frame is designed for compactness, and the metal distributed so as to give great strength. A separate chamber and two stuffing boxes remove the drainage from the stuffing-box from the oil chamber.

**The Bearings** on this engine are unusually large, thereby insuring the least possible wear. The main bearings are fitted with renewable bushes made of cast iron and lined with babbitt metal.

**Lubrication.** The cross heads, guides, wrist-pins, crank pin and main bearings are oiled automatically from oil contained in the bottom of the frame and dashed up by the crank discs. As this oil is used over and over very little is lost.

**The Cross-Head** has adjustable gibs or shoes.

**The Valve** is of the flat type and perfectly balanced. This valve does not require renewing, as it can be adjusted for wear without any fitting, only the legs of pressure plate need to be scraped off enough to give it proper tightness.

**The Steam Chest** is large and the ports near the end so that the full pressure is realized on the piston.

**The Piston** is a hollow casting of great strength and fitted with self-adjusting steam packing rings.

**The Crank Shaft** is a solid steel forging, balanced with cast counter balances.

**The Connecting Rod** is steel and fitted with boxes lined with the best babbitt metal and are adjustable with a key.

**The Governor** is of the Rites' latest improved inertia contained in the fly wheel. It is the simplest governor known that gives first-class regulation. It has two balls, one of which operates by centrifugal force, the other balancing this, operates by inertia. It has only one bearing oiled with grease cups. Any engineer can adjust it to the right speed. It has no superior in quickness of action and close regulation. We guarantee 1 per cent from full load to no load.

**Adjustment.** All engines are tested at the works and adjusted to proper speed.

## THE "CHUSE" HIGH SPEED ENGINE.

### DIRECT CONNECTED ENGINE

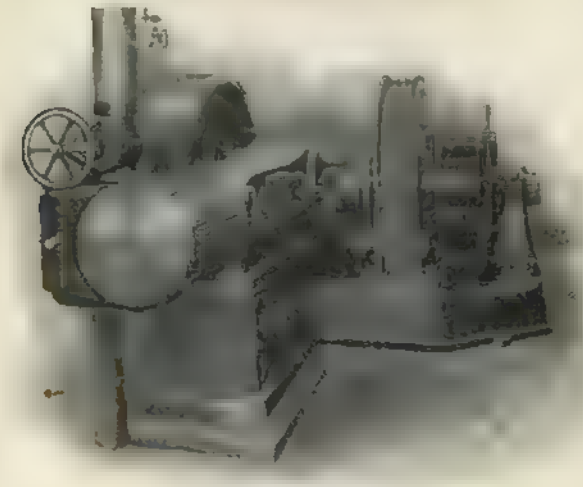


Fig. 1386

### FOUR-PORTED ENGINE.

Either Belted or Direct Connected.

The Four Ported Engines are built on the same designs and patterns as the Standard Engines, except the cylinders.

This engine has two valves, one of which actuated by the governor, controls the admission and cut-off of entering steam. The other valve is moved by a fixed eccentric, and this gives the very desirable conditions of a fixed exhaust and compression.

By this arrangement the steam enters one set of ports on one side of the cylinder and departs on the other side through another set of ports. The live steam never has to enter through and heat up the walls of a passage that has just been cooled by the passage of the exhaust steam.

The clearance, too, is reduced to the minimum allowed by leaving metal of proper thickness to sustain the strain upon it. These two points alone are the chief advantages claimed for the four ported engine over the single valve high speed, and as a consequence recent tests of water consumption indicate a gain of 10 to 15 per cent over the average single valve engine, and that the four ported type is on a par with a Corliss of equal size.

### Simple Four Ported.

| No | Cylinders | | Revolutions Per Minute | Horse Power At Most Economical Rating | | Weight Complete, lbs | Diameter Pipes | | Size Wheels | | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Diam Inches | Stroke Inches | | 90 Lbs Steam | 100 Lbs Steam | | Steam Inches | Exhaust Inches | Diam Inches | Face Inches | |
| 20 | 11 | 12 | 280<br>300 | 72<br>78 | 80<br>86 | 7500 | 3½ | 4 | 54 | 11 | |
| 21 | 12 | 13 | 270<br>290 | 90<br>97 | 100<br>108 | 9500 | 4 | 4½ | 60 | 12 | |
| 22 | 13 | 13 | 260<br>280 | 102<br>109 | 113<br>121 | 12000 | 4½ | 5 | 60 | 13 | |
| 23 | 13½ | 13 | 260<br>280 | 111<br>117 | 121<br>130 | 13000 | 4½ | 5 | 60 | 13 | |
| 24 | 14 | 14 | 250<br>275 | 122<br>134 | 136<br>149 | 14500 | 5 | 6 | 66 | 14 | |
| 25 | 15 | 14½ | 240<br>265 | 139<br>155 | 155 | 16500 | 5 | 6 | 72 | 14 | |
| 26 | 15 | 15 | 240<br>260 | 138<br>154 | 154<br>171 | 19800 | 5 | 6 | 72 | 15 | |
| 27 | 16 | 16 | 225<br>250 | 164<br>182 | 182<br>202 | 20800 | 6 | 7 | 78 | 16 | |
| 28 | 17 | 16 | 225<br>250 | 186<br>198 | 206<br>220 | 22000 | 6 | 7 | 78 | 16 | |
| 29 | 17 | 18 | 200<br>225 | 186<br>204 | 206<br>226 | 28000 | 6 | 7 | 84 | 18 | |
| 30 | 18 | 18 | 200<br>225 | 207<br>231 | 230<br>258 | 30000 | 7 | 8 | 84 | 18 | |

## STILLSON'S WRENCHES.

Made of Black Diamond Cast Steel. Pipe is not crushed by its use

Fig 334
Price List

| Length, open, inches | 8 | 8 | 10 | 14 | 18 | 24 | 36 | 48 |
|---|---|---|---|---|---|---|---|---|
| Takes pipe from (ins | ⅛ to ½ | ⅛ to ¾ | ⅛ to 1 | ¼ to 1½ | ¼ to 2 | ¼ to 2½ | ½ to 3½ | 1 to 5 |
| Price, each | 2 00 | 2.00 | 2.25 | 3 00 | 4.00 | 6.00 | 12.00 | 18.00 |
| Extra Frames, each | .25 | .25 | .33 | .45 | .55 | .65 | .75 | 1.00 |
| Extra Nuts, each | .20 | .20 | .27 | .35 | .42 | .50 | .65 | .80 |
| Extra Jaws, each | .67 | .67 | .75 | 1.00 | 1.33 | 2.00 | 4.00 | 6.00 |

## "TRIMO" PIPE WRENCHES.

Fig. 335
Price List.

| Length, open, inches | 6 | 8 | 10 | 14 | 18 | 24 | 36 | 48 |
|---|---|---|---|---|---|---|---|---|
| Takes pipe from (ins.) | ⅛ to ½ | ⅛ to ¾ | ⅛ to 1 | ¼ to 1½ | ¼ to 2 | ¼ to 2½ | ½ to 3½ | 1 to 5 |
| Price, each | 2 00 | 2 00 | 2 25 | 3 00 | 4 00 | 6 00 | 12 00 | 18 00 |
| 1 Jaw | .67 | .67 | .75 | 1.00 | 1.33 | 2.00 | 4.00 | 6 00 |
| 2 Nut | .20 | .20 | .27 | .35 | .42 | .50 | .65 | .80 |
| 3 Inserted jaw | .25 | .25 | .33 | .50 | .55 | .65 | 1 00 | 1.25 |
| 4 Frame | .25 | .25 | .33 | .45 | .55 | .65 | .75 | 1.00 |

In ordering parts state size of wrench.

## COMBINATION WRENCHES.

Fig 336
Bright, with long nut.

| | |
|---|---|
| 10 inch, adjustable to pipe from ½ inch to 1 inch in diameter, per doz. | $25 25 |
| 12 inch, adjustable to pipe from ½ inch to 1½ inches in diameter, per doz. | 28 50 |
| 15 inch, adjustable to pipe from ½ inch to 2 inches in diameter, per doz | 40 50 |

Fig. 337
Bright, with short nut.

| | |
|---|---|
| 10 inch adjustable to pipe from ½ inch to 1 inch in diameter, per doz | $23 00 |
| 12 inch adjustable to pipe from ½ inch to 1½ inches in diameter, per doz | 26 00 |
| 15 inch adjustable to pipe from ½ inch to 2 inches in diameter, per doz | 37 00 |

## ENGINEER'S WRENCH.

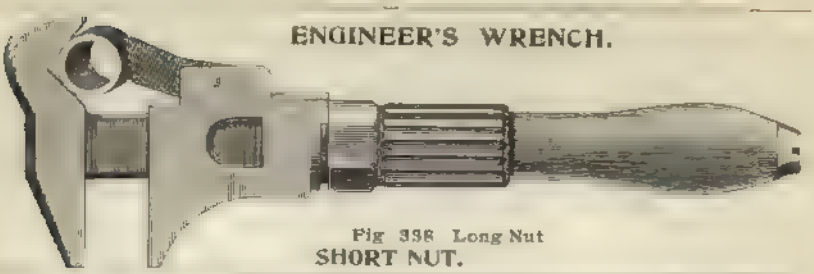


Fig 338 Long Nut

### SHORT NUT.

| | |
|---|---|
| 10 inch, Bright Finish, per dozen | $23.00 |
| 12 inch, Bright Finish, per dozen | 26.00 |
| 15 inch, Bright Finish, per dozen | 37.00 |

### LONG SLEEVE NUT.

| | |
|---|---|
| 10 inch, Bright Finish, per dozen | $25.25 |
| 12 inch, Bright Finish, per dozen | 28.50 |
| 15 inch, Bright Finish, per dozen | 40.50 |

## ATLAS PIPE WRENCH.

Fig. 339

Price List.

| Length open in inches | 10 | 18 | 24 | 46 |
|---|---|---|---|---|
| Takes from | ⅛ in. Wire to 1 in Pipe | ¼ to 2 in. Pipe | ½ to 3 in. Pipe | 1 to 4½ in Pipe |
| Price | $2.25 | $4 00 | $6 00 | $12 00 |

## IMPROVED PARMELEE'S GIRDLE PIPE WRENCHES.

Fig 340

Price List Wrenches.

| Size | Stocks | Girths | Stock only | Girths each |
|---|---|---|---|---|
| No. 1 | 10 | Up to 1 inch Pipe. | $1.00 | $0.75 |
| No. 2½ | 20 | ¾, 1, 1¼ inch | 2 00 | 1.00 |
| No. 3½ | 25 | 1½, 2, 2½, 3 inch | 2 50 | 1 25 |

### Girth Parts.

| | |
|---|---|
| Base, Center and Lip, No. 2½, each | $0.35 |
| Base, Center and Lip, No. 3½, each | 45 |

### Stock Parts.

| | | | | | |
|---|---|---|---|---|---|
| Rotating Handle No 2½ | $1 00 | Fulcrum | $1.00 | Lock Bolt | $0 25 |
| Rotating Handle No. 3½ | 1.10 | Fulcrum | 1 15 | Lock Bolt | 25 |

## GOE'S GENUINE KNIFE HANDLE WRENCHES.

Fig 341

Price List

| Size | Inches | 4 | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|---|---|
| Black | doz | $ 8 00 | $ 9 00 | $10 00 | $12 00 | $14 00 | $24 00 | $30 00 | $36 00 |
| Bright | doz | $10 00 | 10 00 | 11 00 | 14 00 | 16.00 | 26 00 | 32.00 | 38.00 |
| Will open | Inches | ½ | ⅝ | 1 | 1¼ | 2⅛ | 2⅝ | 3 | 4½ |

## THE SOLID HANDLE WRENCH.

Fig 342

Price List.

| Inch | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|
| Black doz | $ 9 00 | $10 00 | $12 00 | $14 00 | $24 00 | $30 00 | $36 00 |
| Bright | 10 00 | 12 00 | 14 00 | 16 00 | 26 00 | 32 00 | 38 00 |

## ELGIN ADJUSTABLE WRENCH.

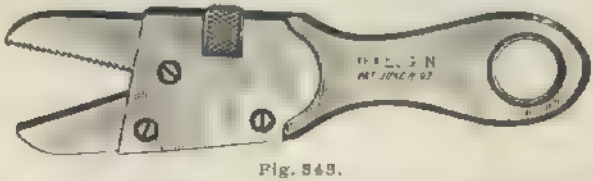


Fig. 343.

Will hold pipe, nipples, collars rods, square, hexagon or round nuts Designed for blacksmiths, plumbers gas fitters, engineers electricians and machinists Will fit pipe up to ¾ inch or nut 1⅛ inch across Both jaws hardened. Wrench is all steel fully nickel plated Length 7 inches Weight 10 ounces. Price $12.00 per dozen. Extra jaws. $3.00 per dozen.

## IMPROVED ADJUSTABLE "S" WRENCH.

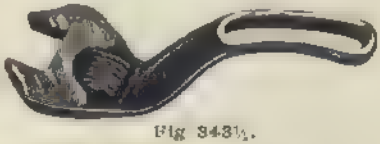


Fig 343½.

| Size Inch | 6 | 8 | 10 | 12 | 14 |
|---|---|---|---|---|---|
| Price doz | $7.20 | $9.00 | $12 00 | $15 00 | $21 00 |
| Open Inches | ¾ | 1 | 1⅜ | 1⅝ | 2 |

## ALLIGATOR WRENCHES.

Fig 344

| | |
|---|---|
| No. 2, 9 inches long, price per doz. | 12 00 |
| No. 3, 16 inches long, price per doz | 24.00 |
| No. 4, 22 inches long, price per doz | 36.00 |
| No. 4½, 24 inches long, price per doz. | 45.00 |

## "ALWAYS READY" WRENCHES.

Price List.

| | |
|---|---|
| No. 1, takes nut from ¼ to ⅝ Price per dozen.. | 5 00 |
| No. 2 takes nut from ⅜ to 1¼ Price per dozen..... | 6 75 |
| No. 2½ takes nut from ½ to 1⅝ Price per dozen . . . . . | 10 50 |
| No. 3 takes nut from ¾ to 2. Price per dozen . . . . . | 16 00 |

Fig 345

## ENGINEERS' WRENCHES.

Drop Forged From Specially Selected Steel

Fig. 345½

DOUBLE HEAD

| Size Bolts, U S Standard Nuts | Extreme Length. | Price in finished. | Price Finish'd |
|---|---|---|---|
| ¼ & ⅜ | 6⅛ | .20 | .40 |
| 5/16 & 7/16 | 6⅞ | .23 | .46 |
| ⅜ & ½ | 7¾ | .28 | 56 |
| 7/16 & ⅝ | 7¾ | .30 | .60 |
| ½ & 9/16 | 8¾ | .36 | .72 |
| ⅝ & ¾ | 9¾ | .41 | .82 |
| 9/16 & ⅞ | 11⅝ | .50 | 1.00 |
| ¾ & ⅞ | 11⅝ | .53 | 1.06 |
| ⅞ & 1 | 15½ | .78 | 1.56 |
| ⅞ & 1 | 15½ | .82 | 1.64 |
| 1 & 1⅛ | 17⅝ | 1 08 | 2 16 |
| 1 & 1¼ | 19⅜ | 1.27 | 2.54 |
| 1⅛ & 1¼ | 19⅜ | 1.35 | 2.70 |
| 1⅛ & 1⅜ | 21¼ | 1 65 | 3.30 |
| 1¼ & 1⅜ | 23⅛ | 2 10 | 4 20 |
| 1⅜ & 1½ | 23¼ | 2.25 | 4.50 |
| 1⅜ & 1⅝ | 25⅛ | 2 85 | 5.70 |
| 1½ & 1⅝ | 27⅛ | 3 30 | 6.60 |
| 1⅝ & 1¾ | 27⅛ | 3 55 | 7.10 |
| 1⅝ & 2 | 30⅞ | 4.15 | 8 30 |
| 1¾ & 2 | 30⅞ | 4.55 | 9.10 |
| 2 & 2¼ | 34⅝ | 5.95 | 11.90 |

Fig. 345½

SINGLE HEAD

| Size Bolts, U S St'd Nuts. | Price Unfinished. | Price Finished |
|---|---|---|
| ⅛ | .08 | .16 |
| 3/16 | .09 | .18 |
| ¼ | 10 | 20 |
| 5/16 | .12 | .24 |
| 7/16 | .14 | .28 |
| 9/16 | .17 | .34 |
| ⅝ | .20 | .40 |
| ¾ | 25 | 50 |
| ⅞ | .32 | .64 |
| 1 | .40 | .80 |
| 1⅛ | 50 | 1 00 |
| 1¼ | .65 | 1.30 |
| 1⅜ | .85 | 1.70 |
| 1½ | 1.10 | 2.20 |
| 1⅝ | 1.40 | 2.80 |
| 1¾ | 1.75 | 3 50 |
| 1⅞ | 2.10 | 4.20 |
| 2 | 2.50 | 5 00 |
| 2 | 3.50 | 7 00 |

Intermediate sizes furnished to order. Furnished with regular thickness of beads. "Unfinished" wrenches have milled openings.

Fig. 346, 6 inch.

## COMBINATION PLYERS AND WIRE CUTTERS.

B. & S. Gas Plyers, Wire Cutters, Wrench and Screwdriver Combined.

| Inches | 6 | 10 |
|---|---|---|
| Per dozen N P | 15 00 | 21.00 |

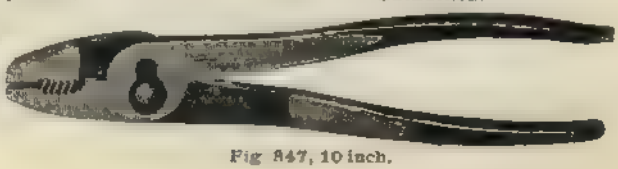


Fig 347, 10 inch.

## THE WARE TIE PLATE SURFACER AND GAUGE.

The only device especially designed for accurately adjusting tie plates under all possible conditions whether ties are in the track or not. This gauge is used in connection with an embedding beetle.

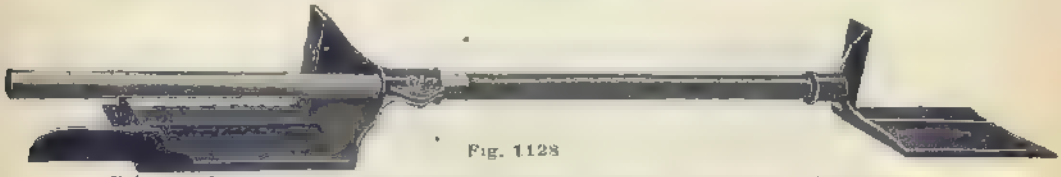


Fig. 1128

Price, each ..... $. .

## TRACK GAUGES AND LEVELS.

### McMANUS COMBINED TRACK GAUGE AND LEVEL

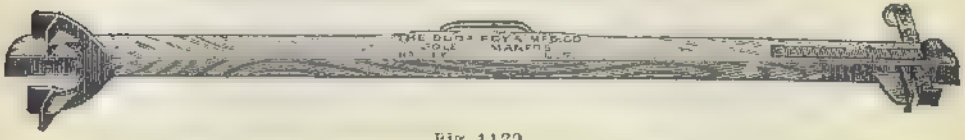


Fig 1129

Price, each ..... $.....

### COMMON TRACK LEVEL.

Fig 1130

Price, each ..... $.....

### HUNTINGTON STANDARD TRACK GAUGE

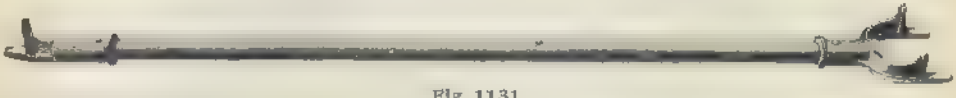


Fig 1131

Price, each..... $.....

## TRACK LEVERS OR LIFTING BARS.

No. 1, 14 feet long.....$8.00 No. 2, 12 feet long.....$7.00

## TRACK WRENCH.

Made of Solid Steel. Round or Flat Handle. Full Length, 20 Inches

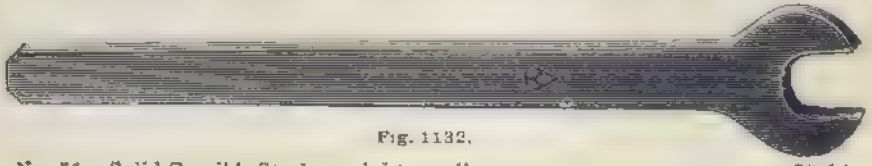


Fig. 1132.

No. 51. Solid Crucible Steel, straight, per lb.....$0 14
Solid Crucible Steel, S shape, per lb..... 22

## RAIL FORK.

Solid Steel.

Fig. 1133

No. 35. Solid Crucible Steel, per lb..... $0.20

## RAIL TONGS.

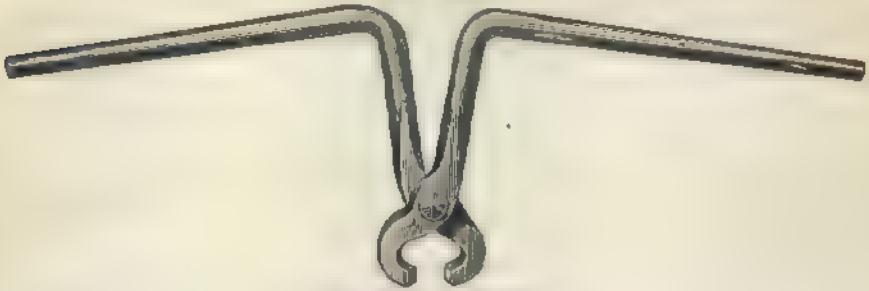


Fig. 1134. Solid Steel

Verona No. 34. Steel, per lb.....$0 20

## CLAW BARS.

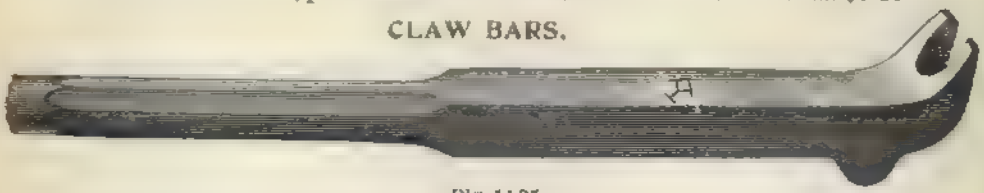


Fig 1135

Verona No. 4. With Heel, per lb .....$0.12
Verona No. 58. Without Heel, per lb. . . . . 0.12

## LINING BARS.—(CROW BAR.)

Fig. 1136. Wedge Point

Verona No. 32. Steel, per lb , any weight..... $0.10

## PINCH BARS.—(CROW BAR.)

Fig. 1137. Chisel Point

Verona No. 31. Steel, per lb., any weight .....$0.10
Standard sizes for railroad use—1½ inch square, 5 feet 8 inches long—about 22 lbs.

## RAILROAD PINCH BARS, WITH HEEL.

Steel, per lb.....$0.12

## TAMPING BAR.

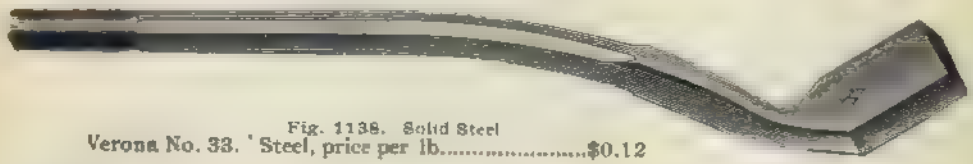


Fig. 1138. Solid Steel

Verona No. 33. Steel, price per lb.....$0.12

## SHACKLE BAR.

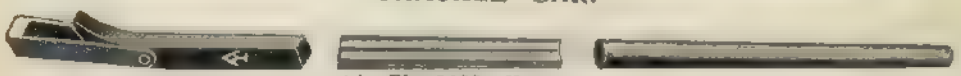


Fig. 1139. Verona

Any size furnished to order, per lb. . . . . .$0.20

## THE "SAMSON" RAILROAD CAR MOVER.

Fig. 1140.

The handle is wood, making it light and handy. The roller in the end of lever does away with friction and wear. Malleable castings make it light and strong.

| | |
|---|---|
| Retail price of "Samson" Car Pusher | $6 00 |
| Extra Steel Spur | .25 |
| Extra Steel Spring | .25 |

## THE CHAMPION PINCH BAR OR CAR MOVER.

Fig. 1141

With Adjustable Hardened Steel Grip or Knife which can be reversed when one edge is worn smooth and replaced with a new one when all three are worn off. We claim for this bar the following advantages, which will recommend it to all practical users. The entire bar is made of Steel. It will work on any style of brake or wheel, and between cars, getting its purchase from the rail to the wheels, it will not slip even ice or grease, one man can easily move any loaded car with it.

| | |
|---|---|
| Price, including one extra Grip, each | $5 00 |
| Price of Grips, 35 cents each, or 3 for | 1 00 |

Weight, 15 lbs.; length, 5 feet.

## THE EASY CAR PUSHER.

Is constructed of the very best material.

The BAR IS STEEL and tempered at the point, so as not to wear.

The "HEEL" IS MALLEABLE and the triangular "BIT" is made of the Finest Tool Steel.

As shown in Fig. 1142, the Heel has lugs extending downward on both sides of the rail, so as to hold it firmly in position and prevent it slipping sideways, and the triangular bit of steel marked "B" cuts into the rail when pressure is applied and prevents slipping backward, even though the rail is icy, greasy or wet.

The Pusher weighs but 20 pounds, is easily handled and can be operated by anybody.

Two triangular steels with each pusher.

Extra steels, 20 cents each.

Length of Pusher, 5½ feet.

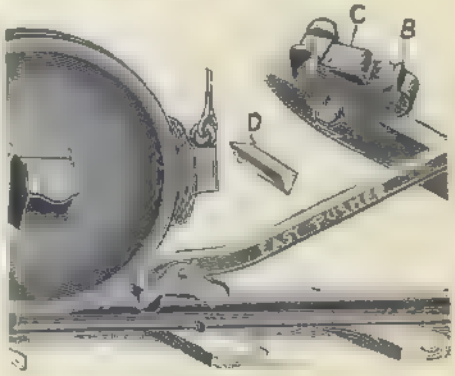



Fig. 1142

Price ..... $5.00

## THE ALEXANDER ENGINE AND CAR REPLACER.

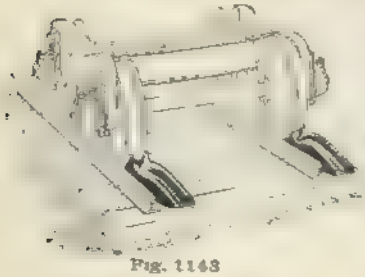


Fig. 1143

Made from One-Half Inch Pressed Steel
The Best Wrecking Frog on The Market.

No. 1 Replacer, 130 lbs. per pair, high enough for 6-in. rail. Per Pair. ....$17 00

No. 2 Replacer, 120 lbs. per pair high enough for 5-in. rail. Per Pair .... 16 00

No. 3 Replacer, 50 lbs. per pair; suitable for Traction Companies and Mine Engines. Per Pair.... ..... 12 00

## SNOW CAR AND LOCOMOTIVE REPLACER.

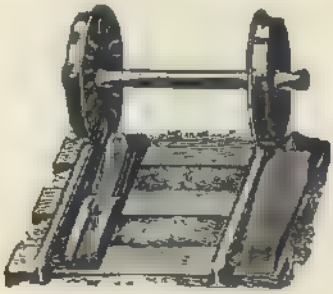


Fig 1144

Made of Cast Steel.
Weight, 210 pounds per pair. Length 36 inches
Suitable for any height of rail
Price per pair.. .. . ..... . . . . . .$. .. . . .

## LITTLE GIANT ANTI-SLIPPING CAR REPLACER.

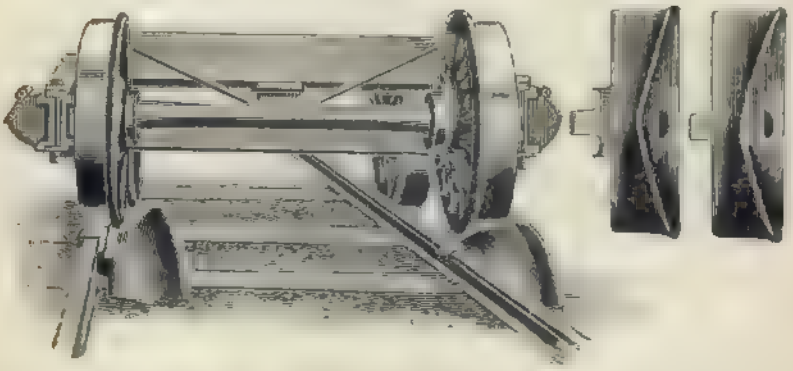


Fig 1145

Size No. 1, 2 feet 3 inches long, per pair . $15 00
Size No. 2, 2 feet 8 inches long, per pair... 18 00

## THE BROWNELL AUTOMATIC ENGINE.

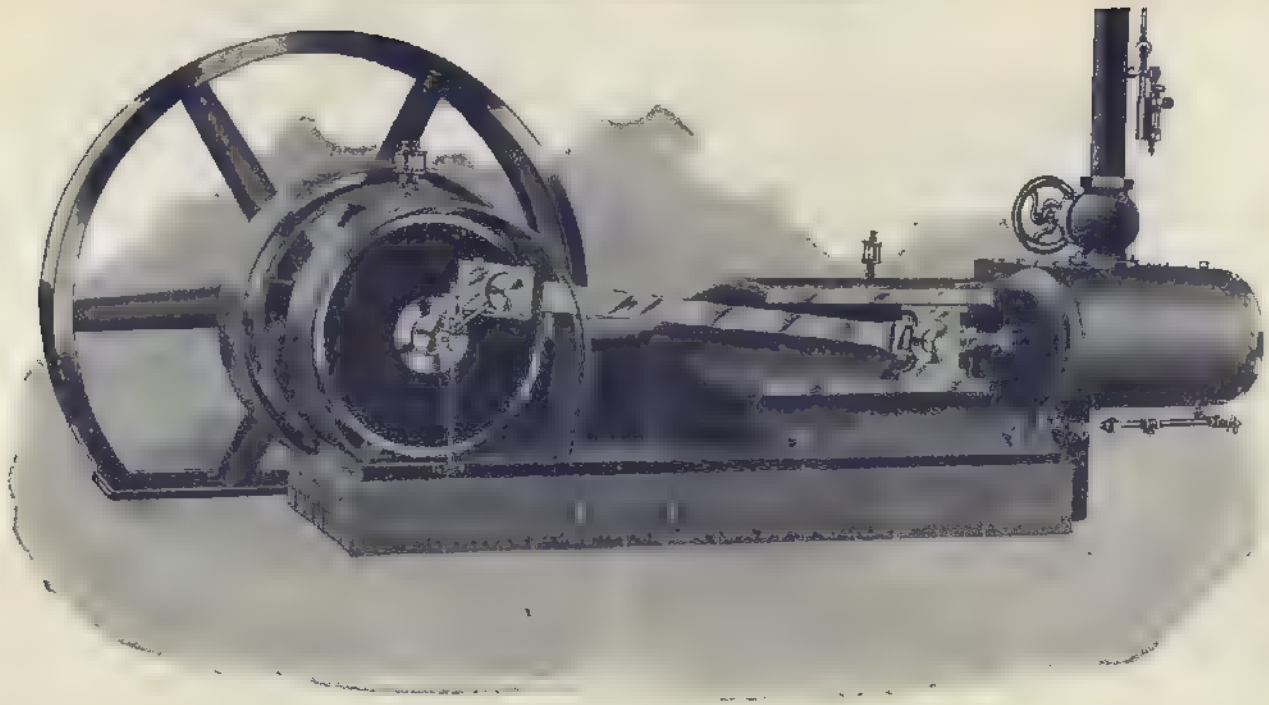


Fig. 1381. Front View

Description.

The Brownell Automatic Engine illustrated on this page belongs to that class of engines known as "Single Valve Automatic," which are now being so extensively used for electrical and other purposes requiring high or medium speed, close regulation, simplicity and noiseless operation.

## THE BROWNELL SIDE-CRANK, SLIDE-VALVE ENGINE.

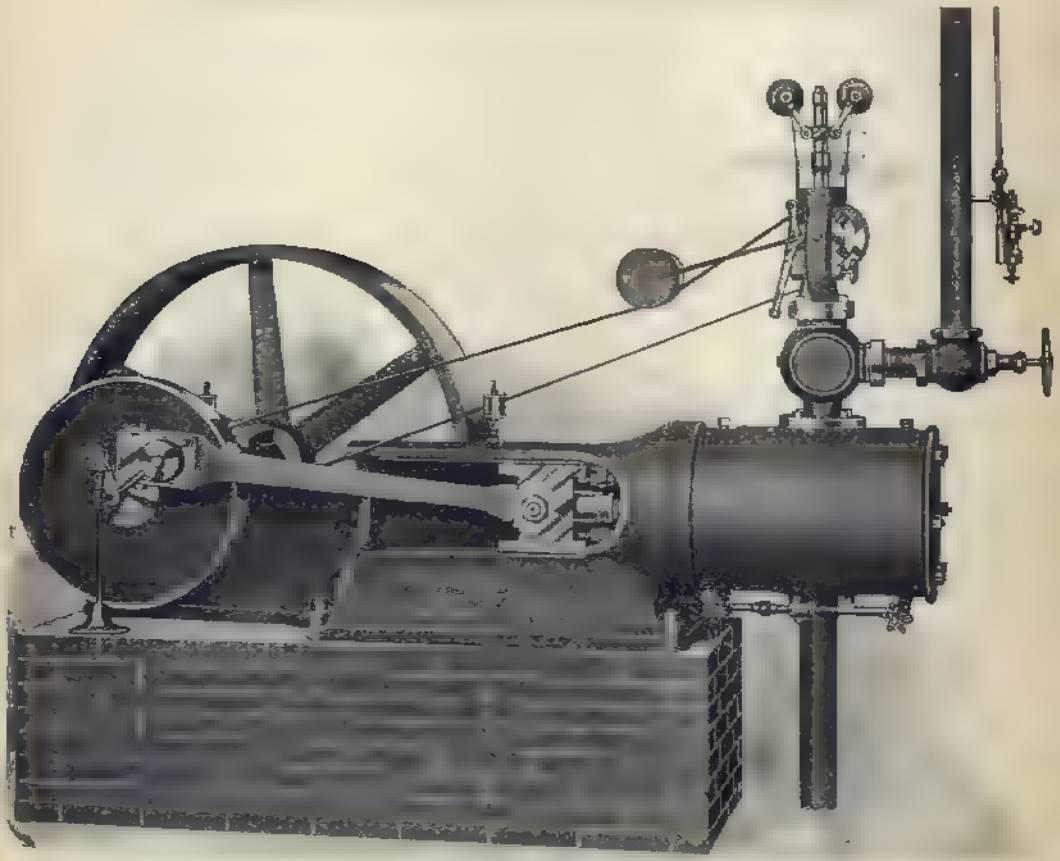


Fig. 1880.

The material and workmanship throughout are guaranteed first class in every respect, the crank shaft, pins, and piston rods are hammered steel, the connecting rod is a solid steel forging, the main bearings are lined with first class babbitt and scraped to a true fit. The cross head is of the Corliss type and has babbitt lined adjusting shoes top and bottom.

Each Engine, before shipment is tested under steam with brake and indicator, to get the valve correctly set and the bearings properly adjusted, and no engine is allowed to leave the factory until it is in perfect running condition.

Table of Sizes and Dimensions

| Cylinder | | Revolutions per Minute | Horse Power | Pipes | | Wheel | | Diam. Shaft | Shipping Weight |
|---|---|---|---|---|---|---|---|---|---|
| Diameter | Stroke | | | Steam | Exh't | Diam. | Face | | |
| 7 | 10 | 275 | 18 | 1½ | 2½ | 40 | 8½ | 3 15/16 | 2000 |
| 8 | 10 | 275 | 23 | 1½ | 2½ | 40 | 8½ | 3 15/16 | 2000 |
| 9 | 12 | 250 | 33 | 2 | 3 | 48 | 10½ | 4 7/16 | 2860 |
| 10 | 12 | 250 | 41 | 2 | 3 | 48 | 10½ | 4 7/16 | 2860 |
| 11 | 14 | 225 | 52 | 2½ | 3½ | 60 | 12½ | 5 7/16 | 4400 |
| 12 | 14 | 225 | 62 | 2½ | 3½ | 60 | 12½ | 5 7/16 | 4400 |
| 13 | 16 | 200 | 75 | 3 | 4 | 72 | 14½ | 6 7/16 | 6900 |
| 14 | 16 | 200 | 86 | 3 | 4 | 72 | 14½ | 6 7/16 | 6900 |
| 15 | 20 | 175 | 98 | 3½ | 4½ | 84 | 16½ | 7 7/16 | 12000 |
| 16 | 20 | 175 | 111 | 3½ | 4½ | 84 | 16½ | 7 7/16 | 12000 |

With each engine we furnish throttling governor with automatic stop throttle valve with nipple, sight feed lubricator, sight feed oil cups centrifugal oiler for crank pin, cylinder drip valves, wrenches and blue print for foundation.

NOTE.—Steam and water connections, foundation bolts, and governor belt are extras and if ordered an additional charge will be made for them.

## THE BROWNELL AUTOMATIC ENGINE.

### Description—Continued.

**The Frame** while being strong, rigid and symmetrical, is unique in design, being self contained, side crank This construction obviates the usual difficulty experienced in setting up and adjusting other types of engines, and at the same time insures lasting alignment.

**The Governor** used is the Rites Inertia Governor which is acknowledged to be the most sensitive as well as simplest speed regulator ever applied to a steam engine.

**The Valve** is a double ported balanced slide valve which is self adjusting to wear and so arranged as to relieve the cylinder in case of water.

**The Material** throughout the engine is the very best that can be used for the required work, and the workmanship is first class in every respect, all parts being made on the interchangeable plan with jigs and templates. The engine is guaranteed to be entirely first class and equal to any of its class on the market.

Table of Sizes and Powers—All dimensions are in inches.

| Cylinder | | Speed | Indicated Horse Power | Pipes | | Wheel | | Floor Space | | Foundation | | Estimated Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | Stroke | | | Steam | Exhaust | Diameter | Face | Length | Width | Brick | Cubic Feet | Fly Wheel | Complete |
| 5 | 12 | 300 | 14 | 2 | 2½ | 40 | 8 | 84 | 48 | 3150 | 150 | 450 | 2500 |
| 6 | 12 | 300 | 21 | 2 | 2½ | 40 | 8 | 84 | 48 | 3150 | 150 | 450 | 2500 |
| 7 | 14 | 275 | 30 | 2½ | 3 | 48 | 10 | 102 | 58 | 4830 | 230 | 1090 | 3700 |
| 8 | 14 | 275 | 39 | 2½ | 3 | 48 | 10 | 102 | 58 | 4830 | 230 | 1090 | 4100 |
| 9 | 16 | 250 | 51 | 3 | 3½ | 60 | 12 | 116 | 64 | 7000 | 333 | 1635 | 5500 |
| 10 | 16 | 250 | 63 | 3 | 3½ | 60 | 12 | 116 | 64 | 7000 | 333 | 1635 | 5950 |
| 11 | 18 | 225 | 78 | 4 | 4½ | 72 | 14 | 136 | 76 | 10815 | 515 | 2250 | 8650 |
| 12 | 18 | 225 | 92 | 4 | 4½ | 72 | 14 | 136 | 76 | 10815 | 515 | 2250 | 9150 |
| 13 | 20 | 200 | 107 | 4½ | 5 | 84 | 16 | 153 | 82 | 15600 | 743 | 3500 | 11800 |
| 14 | 20 | 200 | 124 | 4½ | 5 | 84 | 16 | 153 | 82 | 15600 | 743 | 3500 | 12400 |
| 15 | 24 | 175 | 150 | 5 | 6 | 96 | 18 | 186 | 93 | 20500 | 976 | 4100 | 17400 |
| 16 | 24 | 175 | 171 | 5 | 6 | 96 | 18 | 186 | 93 | 20500 | 976 | 4100 | 18000 |

With each engine we furnish throttle valve, sight feed oil cups, sight feed lubricator, oil shield and pan, centrifugal oiler for crank pin, valves and pipe for drip, set of wrenches, foundation bolts and plates, and blue print of setting plan.

## BROWNELL TWENTIETH CENTURY AUTOMATIC ENGINE.

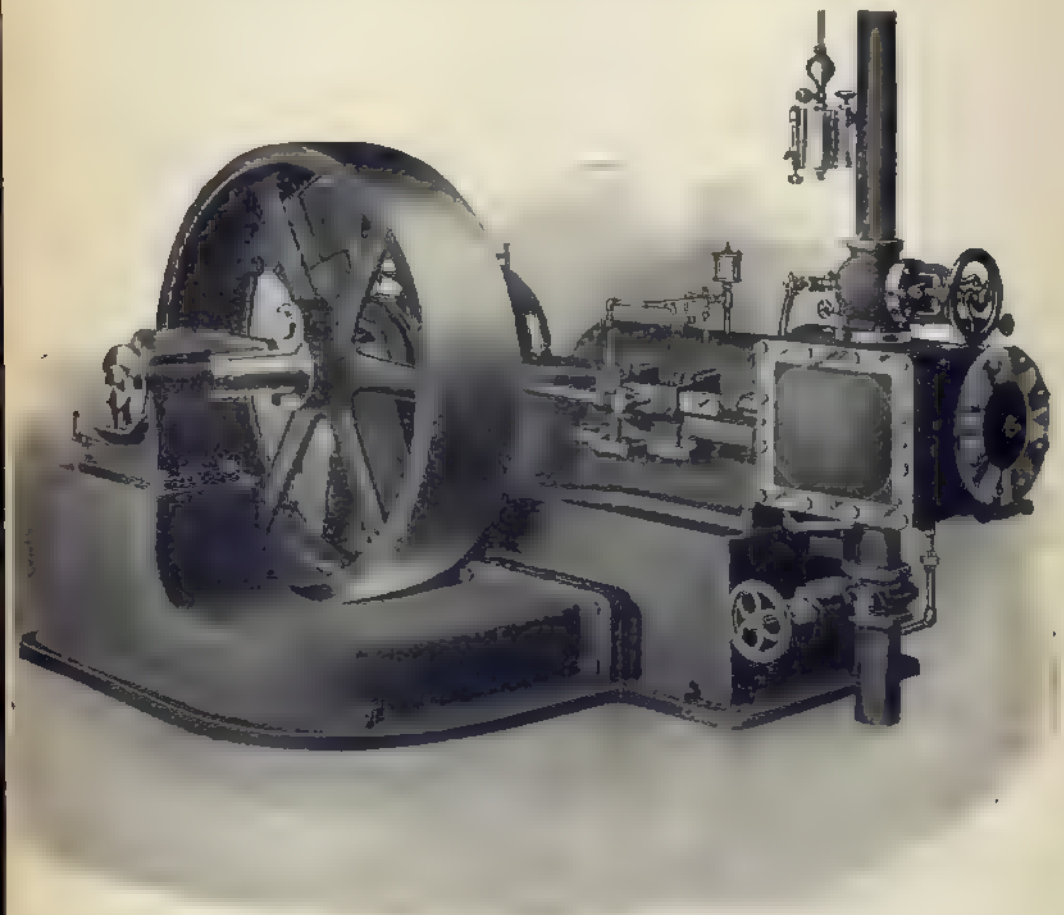


Fig 1382. Back View

### Table of Sizes and Dimensions.

| Cylinder | Speed | I.H.P. | Generator | Wheel | Pipes | | Crank Shaft | Diam Piston Rod | Weight of Fly Wheel |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Steam | Exh'st | | | |
| ins. | | | K W | ins. | ins. | ins. | ins | ins | lbs. |
| 10x12 | 300 | 57 | 35 | 54x13 | 3½ | 4 | 4 7/16 | 1 11/16 | 1,500 |
| 11x12 | 300 | 68 | 40 | 54x13 | 3½ | 4 | 4 7/16 | 1 11/16 | 1 500 |
| 12x14 | 275 | 86 | 50 | 60x15 | 4½ | 5 | 6 | 1 15/16 | 1,800 |
| 13x14 | 275 | 102 | 60 | 60x15 | 4½ | 5 | 6 | 1 15/16 | 1,800 |
| 14x16 | 250 | 123 | 75 | 66x17 | 5 | 6 | 7 | 2 3/16 | 2,150 |
| 15x16 | 250 | 141 | 85 | 66x17 | 5 | 6 | 7 | 2 3/16 | 2,150 |
| 16x16 | 250 | 162 | 100 | 66x17 | 5 | 6 | 7 | 2 3/16 | 2 150 |
| 17x18 | 225 | 185 | 125 | 72x19 | 6 | 7 | 8 | 2 7/16 | 2,600 |
| 18x18 | 225 | 204 | 135 | 72x19 | 6 | 7 | 8 | 2 7/16 | 2,600 |
| 19x18 | 225 | 230 | 150 | 72x19 | 6 | 7 | 8 | 2 7/16 | 2 600 |
| 20x20 | 200 | 255 | 170 | 84x21 | 7 | 8 | 9 | 2 15/16 | 3 200 |
| 22x20 | 200 | 310 | 200 | 84x21 | 7 | 8 | 9 | 2 15/16 | 3,200 |

Arranged either for Belting or Direct Connection to Generator
Prices upon application

## EXCELSIOR SQUARING SHEARS—IMPROVED.

These Shears are accurate durable and well adapted to all the ordinary work of tinsmiths, etc They work easily, and no more pressure is required when the treadle is nearly down than at the beginning of the stroke.

The price of the Shears includes a full set of ordinary front, bevel and side gauges, also Micrometer Back Gauge and the top shelf

Fig 1482 30 inch

| | Shipping Weight | Price |
|---|---|---|
| 14 inch Excelsior Squaring Shear, ... | 240 lbs | $33 00 |
| 22 inch Excelsior Squaring Shear,..... | 300 lbs | 35 00 |
| 30 inch Excelsior Squaring Shear, ... | 420 lbs | 50 00 |
| Iron Drop Tables, extra ..... | | 2 00 |

## NIAGARA POWER SQUARING SHEARS.

### No. 200 Series.

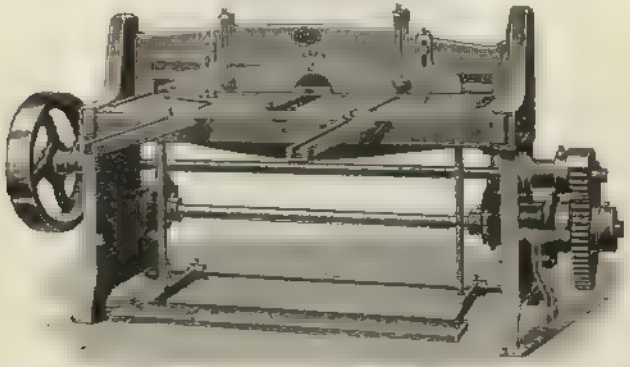


Fig 1483, For No. 14 Iron and 22 gauge

| No | Will Cut and Square, Inches | Fly Wheel. Diameter, Inches | Face Inches. | Speed Revol | Weight, Lbs | Price. |
|---|---|---|---|---|---|---|
| 225 | 25 | 20 | 3 | 150 | 1 000 | $ ... |
| 230 | 30 | 20 | 3 | 150 | 1 200 | ... |
| 236 | 36 | 22 | 4 | 150 | 1 400 | ... |
| 242 | 42 | 22 | 4 | 150 | 1 800 | ... |
| 252 | 52 | 25 | 4 | 150 | 2 000 | ... |
| 262 | 62 | 28 | 4 | 150 | 2,100 | ... |
| 272 | 72 | 28 | 4 | 150 | 2,500 | ... |

## NIAGARA SLIP-ROLL FORMING MACHINE.

### With Lifting Device for Upper Roll.

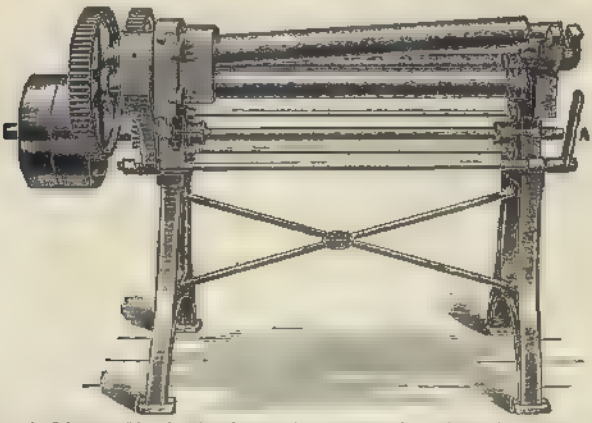


Fig 1484. 4x30-inch Slip Rolls, double back geared, on legs for hand and power

| Size of Rolls | | Single Back-Geared | | Double Back-Geared | | |
|---|---|---|---|---|---|---|
| | | For Bench and Hand | | For Bench and Hand | | |
| Diam | Length | Shipping Weight, lbs. | Price | Shipping Weight, lbs. | Price | Will Form |
| 2½ | 30 | 350 | $ 98.00 | ..... | ..... | ..... |
| 2½ | 36 | 380 | 42 50 | ..... | ..... | ..... |
| 3 | 30 | 435 | 62 50 | 500 | $ 70 00 | No 13 |
| 3 | 36 | 475 | 68.50 | 550 | 76 00 | " 14 |
| 3 | 42 | 525 | 74 50 | 600 | 82 00 | " 15 |
| 3 | 48 | 565 | 80 50 | 650 | 88 00 | " 16 |
| 3½ | 30 | 670 | 85 00 | 765 | 93 00 | " 11 |
| 3½ | 36 | 730 | 94 00 | 825 | 102 00 | " 12 |
| 3½ | 42 | 790 | 103 00 | 885 | 111 00 | " 13 |
| 3½ | 48 | 850 | 112 00 | 945 | 120 00 | " 14 |
| 4 | 36 | 1300 | On Legs 127.00 | 1425 | On Legs 139 00 | " 10 |
| 4 | 42 | 1375 | 137 50 | 1510 | 149 50 | " 11 |
| 4 | 48 | 1450 | 148 00 | 1590 | 160 00 | " 12 |
| 5 | 36 | 1800 | 170 00 | 1950 | 185 00 | " 6 |
| 6 | 36 | 2675 | 280 00 | 2860 | 300 00 | ⅜-in |

Use Single Back Gear on 2½ to 3½-inch rolls to form No. 16 easily; Double Back-Gear to form No. 14, long lengths, to small circle. 3-inch and longer rolls should be back-geared; 4-inch and larger rolls must be set on legs

### Extras.

| | | | | | | |
|---|---|---|---|---|---|---|
| Size Rolls, Inches..... | 2½ | 3 | 3½ | 4 | 5 | 6 |
| T and L Pulleys, extra . . . | $6 00 | $6 50 | $7 00 | $7 50 | $10 00 | $14 00 |
| Iron Legs ..... " ... ... " | 6 00 | 7 00 | 8 00 | . | . | . |
| Additional Length, " per in | 80 | 1 00 | 1 50 | 1 75 | 2 50 | 3.50 |

## CORNICE BRAKES.

This brake is guaranteed to bend No. 20 gauge and lighter, and with the assistance of heavy bending attachment will bend No. 18 gauge.

Seven Formers are furnished with each machine for making circular bends as follows, 2½, 2, 1½, 1¼, 1, ⅞, and ¾ inch.

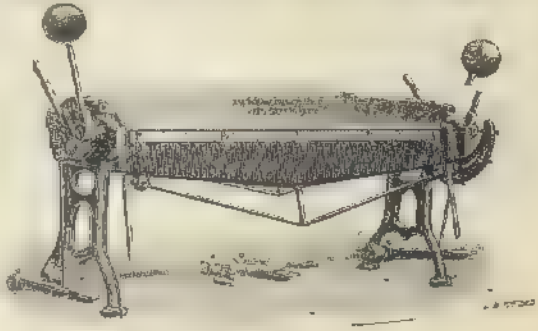


Fig. 1485.

These brakes are made in six sizes as follows

| | | |
|---|---|---|
| 30 inch brake clamps 31½ | inches, weight 520 lbs | $ |
| 36 inch brake clamps 37 | inches, weight 600 lbs . . . . | $ |
| 4 foot brake clamps 51 | inches, weight 1180 lbs . | $ |
| 6 foot brake clamps 75 | inches, weight 2100 lbs | $ |
| 8 foot brake clamps 97 | inches, weight 3000 lbs | $ |
| 10 foot brake clamps 121 | inches, weight 7200 lbs . ..... | $ |

## NIAGARA POWER CIRCLE AND SLITTING SHEARS.

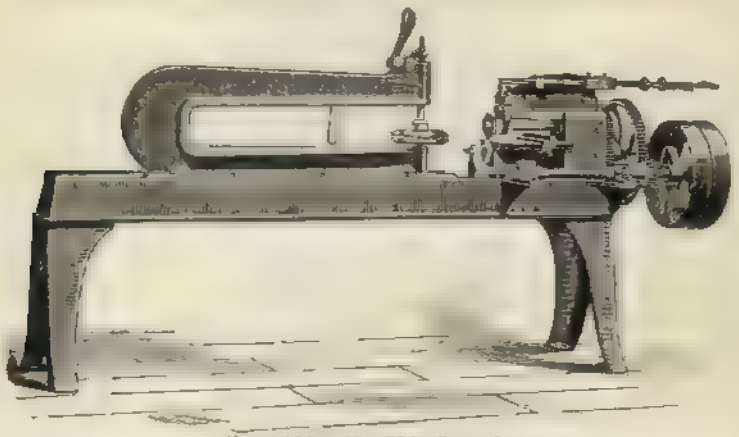


Fig. 1486. No. 206—Geared.

These shears are adapted to slitting sheets of any length as well as to cutting circular blanks 10 inches and larger in diameter limited by the depth of throat. Any of the three sizes can be furnished with traveling carriage and ways on which the sheet is clamped while being cut to insure a straight cut. A deeper circle arm can be substituted to special order and at extra cost.

| NUMBER | 205 | 206 | 207 |
|---|---|---|---|
| Will cut, not geared | No. 18 | No. 18 | No. 18 |
| Will cut, geared | No. 12 | No. 12 | No. 10 |
| Depth of throat of cutting head, inches | 12 | 16 | 25 |
| Depth of throat of circle arm, inches | 26 | 38 | 44 |
| Price, not geared | $ | $ | $ |
| Price, geared | | | |

## NIAGARA SNIPS OR HAND SHEARS.

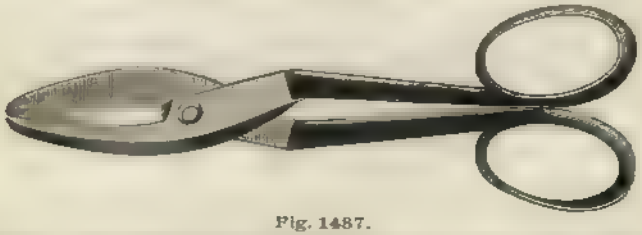


Fig. 1487.

These Snips are drop forged of steel and the jaws are laid with high grade cast steel properly hardened. The finish is strictly first-class.

| Nos. | 6½ | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|
| Will cut | 4½ in. | 4 in. | 3½ in. | 3 in. | 2½ in. |
| Niagara Straight Snips per pair | $3 00 | $2 50 | $2 00 | $1 50 | $1 40 |
| Niagara Circular Snips per pair | 4 25 | 3 50 | 3 00 | 2 50 | 2 25 |

Fig. 1488.

## "HOT BLAST" WALL TORCH.

For Gasoline.

Producing an illuminating white flame. For use of street contractors, street selling, out-door venders, showmen, etc. Largely used by railroads, street railways, etc. Not affected by wind or rain. Burns 10 hours. Cost of lighting, 1 cent per hour. Price, per doz. $24.00.

## "HOT BLAST" BLOW TORCH.

For Gasoline.

One of the best of all round torches. For plumbers, electricians, gas fitters and heavy trench work. Generates about 2,000 degrees F. and positively will not chill. Burns in any position.

Fig. 1489.

Price, each . . . . . ...$4.50

## HYDRAULIC WHEEL PRESS.

Fig 1490.

Cut, Style D.—Size 38-in. 48 in. 54-in. 66-in. 72-in

The 30-in., 38-in., 46-in. and 54-in. are 150 tons capacity.
The 66-in. and the 72 in. are 200 tons capacity.
Prices and details furnished upon application.

## RIEHLE TESTING MACHINES.

U. S. Standard.

Screw Power, Hydraulic Power and Multiplying Lever Testing Machines for testing metals, woods, chains, ropes springs cements etc., etc., by transverse strain, tortional strain, tensile strain, and by compression.

Photographs and description furnished upon receipt of information as to desired requirements.

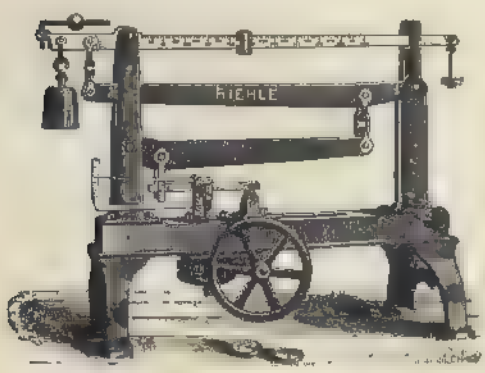



Fig. 1491
Multiplying Lever Testing Machine, 5,000 lbs.

This Machine is made all of metal and is a quick, reliable machine for testing specimens of iron or other metal. Machines of this general type are made from 7,500 lbs. capacity down to 3,000 lbs. Every foundry should have one for testing sample bars of cast iron

Price .....$ . .
Indicator for Elastic Limit .....$ . . . .

## NIAGARA ADJUSTABLE POWER PRESSES.

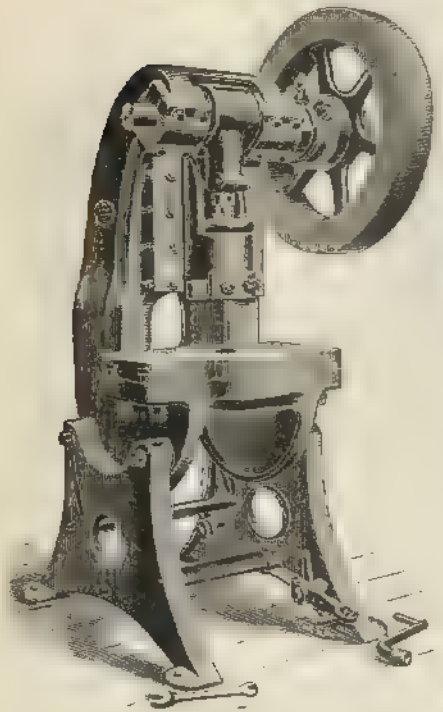


Fig 1492 No 5

## THE BADGER PUNCH AND SHEARS.

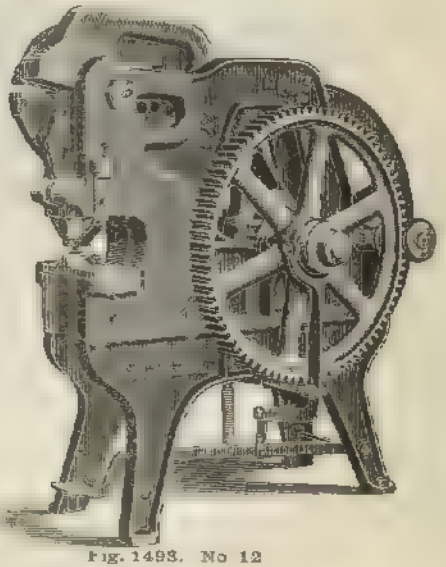


Fig. 1493. No 12

### Niagara Adjustable Power Presses.

| Number | In. | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| Opening in bed, rectangular part | " | 4½x8 | 6x10 | 8x12 | 14x14 | 24x25 |
| " " " circular part | " | 6 | 8 | 10 | | |
| Distance from center of slide to back | " | 4 | 5 | 6 | 9 | 15 |
| " " bed to slide, when up, stan'd stroke | " | 7 | 8 | 9 | 10 | 11 |
| Width of opening in back of Press | " | 7 | 8 | 12 | 14 | 20 |
| Stroke of slide, standard | " | 1½ | 2 | 2½ | 3 | 3 |
| Maximum stroke of slide | " | 2½ | 2½ | 3 | 3½ | 4 |
| Adjustment of slide | " | 3 | 3 | 3 | 3 | 3 |
| Hole in slide, square | " | 2 | 2 | 2 | 2 | 3 |
| Diameter of shaft | " | 2¼ | 2½ | 3 | 3½ | 4 |
| Area top of bolster | " | 7½x15½ | 10x19 | 12x25 | 20x28 | 29x32 |
| Thickness " | " | 1¼ | 1¾ | 2¼ | 2½ | 2½ |
| Height to center of shaft | " | 55 | 60 | 62 | 63 | 72 |
| Weight of Press, not geared | lbs. | 900 | 1,400 | 2,500 | 3,500 | 6,500 |
| Price " " | | $ | $ | $ | $ | $ |

### The Badger Punch and Shears.

| No. | Will Cut Flat in. | Will Cut Round in. | Will Punch Size Hole in. | Will Punch Thickness in. | Weight lbs. | Price |
|---|---|---|---|---|---|---|
| 10½ | ¼ x6 / ½ x2 | ⅝ | ½ | ⅝ | 1100 | $190.00 |
| 12 | ½ x4 | 1⅛ | ¾ | ½ | 2000 | 400.00 |
| 66 | ⅜ x4 / ⅝ x3 | 1 | ½ | ½ | 490 | 60.00 |
| 33 | ½ x2½ / ¾ x2 | ⅞ | ⅜ | ⅝ | 260 | 35.00 |

Nos. 33 and 66 are not geared and are operated by hand power.

## STEEL SCREW PUNCHES.

| No. | Size Hole, In. | Thickness, In | Gap, Inches | Weight, Lbs | Price |
|---|---|---|---|---|---|
| 00 | 5/16 | 1/4 | 1 1/2 | 15 | $20.00 |
| 0 | 7/16 | 1/4 | 1 1/2 | 17 | 24 00 |
| 1 | 1/2 | 3/8 | 1 1/2 | 27 | 30 00 |
| 2 | 5/8 | 1/2 | 2 | 40 | 40 00 |
| 3 | 3/4 | 3/4 | 2 1/2 | 60 | 60.00 |
| 3 1/2 | 3/4 | 3/4 | 3 1/2 | 90 | 75 00 |
| 4 | 3/4 | 3/4 | 4 | 100 | 80 00 |

One punch and die furnished. Extra punches and dies per pair, Nos. 0, 00, $3.50; Nos 1, 2, $4 00; Nos. 3, 3½, 4, $5.00.

All the above prices are List. Send for our Special Discount.

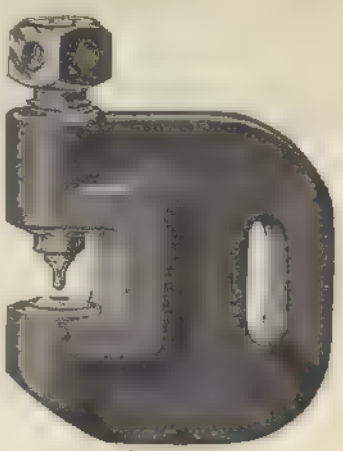


Fig. 1494.

## HYDRAULIC HEAD PUNCH.

This Punch (so called, as it has a head like Jack) is the latest invention, and is a great improvement upon the old Screw Punch. It will do double the work in the same time

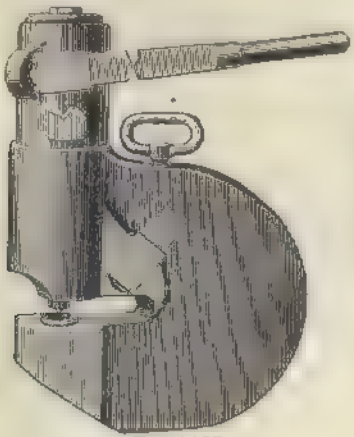


Fig. 1495.

Regular Sizes.

| No. | Thickness | Rivet | *Gap | Weight. | Price. | *Gap. | Price. |
|---|---|---|---|---|---|---|---|
| 0 | 1/4 | 5/8 | 2 | 40 | $70 00 | 3 1/2 | $80.00 |
| 1 | 5/16 | 5/8 | 2 | 50 | 80.00 | 3 1/2 | 90 00 |
| 2 | 1/2 | 5/8 | 2 | 60 | 100 00 | 3 1/2 | 110 00 |
| 3 | 3/4 | 3/4 | 2 | 70 | 120 00 | 3 1/2 | 130 00 |
| 4 | 1/2 | 1/2 | 2 | 90 | 150.00 | 3 1/2 | 170.00 |
| 5 | 5/8 | 7/8 | 2 | 120 | 200 00 | 3 1/2 | 220 00 |
| 7 | 1 | 1 | 2 | 280 | 250 00 | 4 | 275 00 |

*Gap refers to distance from edge of sheet to center of hole. Greater distance to order.

## HYDRAULIC SCREW PUNCH.

This Punch is so well known to the trade that a description is unnecessary; it is and has been in very general use with most Boiler Makers, Bridge Builders, etc., for years. All Punches are made from Solid Steel Forgings. Prices same as Head Punch.

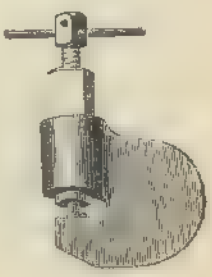


Fig. 1496

Fig. 1497. No. 12.

## NIAGARA LEVER PUNCHES.

### Nos. 11 to 14.

The lever is short and works both ways. Will punch a hole ¼ in. in diameter through iron ¼ in. thick. An adjustable gauge is applied to regulate the distance of the holes from the edge of the sheet, also a stripping attachment.

Three punches—⅛, 5/16 and ¼ inch diameter—and one die to match are included in the price.

| Size. | Throat. | Weight. | Price |
|---|---|---|---|
| No. 11 Punch..... | 4 inches. | 105 lbs. | $12.50 |
| " 12 " ..... | 6 " | 115 " | 15.00 |
| " 13 " ..... | 10 " | 150 " | 20 00 |
| " 14 " ..... | 15 " | 240 " | 25 00 |

### Nos. 21 to 24.

These machines are intended for heavy work. They can be operated with or without ratchet.

Will punch, without ratchet, ½ inch hole through ¼ inch iron, or equivalent.

Will punch, with ratchet, ½ inch hole through ⅜ inch iron, at two strokes.

Three punches—½, ⅜ and ½ inch diameter—and one die to match are included in this price

| Size. | Throat. | Weight. | Price. |
|---|---|---|---|
| No. 21 Niagara Lever Punch | 4 inches | 150 lbs | $20 00 |
| " 22 " " " | 6 " | 210 " | 24 00 |
| " 23 " " " | 10 " | 375 " | 32 00 |
| " 24 " " " | 15 " | 550 " | 40 00 |

Extra Punches, regular size.....each, $ .75
" Dies, " " ..... " 1 50

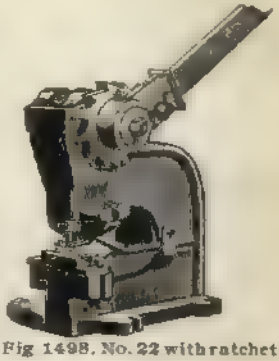


Fig 1498. No. 22 with ratchet

Fig 1499. No. 13

## NIAGARA LEVER SHEARS.

### For Cutting Plate Iron of any Width and Length.

| | Length of Knives | Weight. | Price. |
|---|---|---|---|
| No 13 Shear cut ⅛ plate iron. | 4½ inches | 200 lbs | $25.00 |
| " 14 " " 3/16 " " " | 5 " | 400 " | 40.00 |
| " 15 " " ¼ " " " | 6 " | 800 " | 90.00 |
| Iron Legs for Nos 13, 14 extra | ..... | ..... | 5.00 |
| " " " No. 15 " | ..... | ..... | 10 00 |

## COMBINED SHEARS AND PUNCHES.

These machines are suitable for cutting and punching metal. Sheets of any length and width can be cut apart.

No. 1 will cut ⅛ inch iron, will punch ⅛ inch hole through ⅛ inch iron.

No 2 will cut ⅛ inch iron; will punch ⅛ inch hole through 5/16 inch iron.

No. 3 will cut ⅛ inch iron; will punch ⅛ inch hole through ¼ inch iron.

Cutting Length of No. 1, 4 inches. No 2, 5 inches, No. 3, 8½ inches.

Throat of punch No. 1, 2½ inches; No. 2, 3½ inches, No. 3, 5 inches.

| No. | With Punches. | Lbs. | Price. |
|---|---|---|---|
| 1 Comb. Shear, Punch, | ⅛, 3/16, ¼, 5/16 | 100 | $15 00 |
| 2 " " " | ⅛, 3/16, ¼, 5/16, ⅜ | 115 | 20.00 |
| 3 " " " | ⅛, 3/16, ¼, 5/16, ⅜ | 235 | 35.00 |

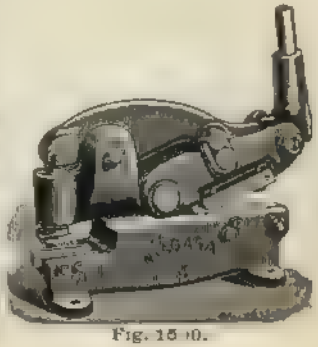


Fig. 1500.

## PUNCHING AND SHEARING MACHINES.

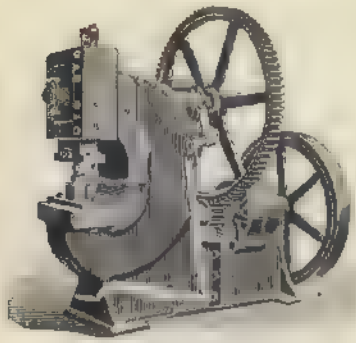


Fig. 1501

**Single Punch and Shears.**

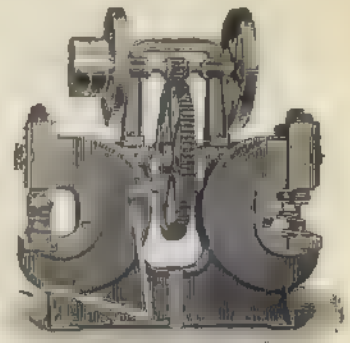


Fig. 1502

**Double Punch and Shears.**

We give only one illustration each of the single and double machine as the general type is the same in all sizes. They are made regularly in fourteen sizes.

**Special Patterns** are furnished for boiler, architectural, and bridge work, also patterns with particularly wide heads for gang work, and with large openings in the lower jaw to allow gang punchings or large blanks to fall through. The depth of throat will be made as specified, the price varying with different depths.

All sizes are made either single or double. The punch and shearing tools can be attached to either end of a double machine and are quickly and easily changed. The standard equipment is one pair of flat or plain cross cut shears, and one punch and die, with holders, stripper, and the usual gauges. Additional equipment such as splitting shears, notcher blades for rounds, angle shears, etc., are charged extra.

**Automatic Stop** is furnished at slight additional cost.

**The Construction** is of the best grade both in workmanship and materials. The frames are made of a particularly high grade of iron. The shafts and other parts correspond. Full details will be given on inquiry to prospective customers.

**The Operation** of these machines is too well known to require explanation, and easily understood from the illustrations. Each end of a double machine operates independently of the other, with a separate clutch and treadle.

**Customers are requested** to give full particulars of the work to be done. Send drawing. Give thickness of metal, kind of metal, diameter of hole. In case of shearing, state thickness of metal and length of cut; also give depth of throat required.

**Electric Motors** direct connected are furnished to special order.

### Table of Capacity.

| No. of Machine | Smallest Depth of Throat in inches. | Capacity with Smallest Throat | |
|---|---|---|---|
| | | Punches Inches | Shears Inches |
| 9 | 18 | 3 hole in 2 iron | 4½ round and 2½ x 10 |
| 10 | 16 | 2¾ hole in 1¾ iron | 3½ round and 2 x 10 |
| 11 | 15 | 2½ hole in 1½ iron | 3 round and 1½ x 10 |
| 12 | 12 | 2¼ hole in 1¼ iron | 2½ round and 1¼ x 8 |
| 12B | 10 | 2 hole in 1½ iron | 2¼ round and 1¼ x 8 |
| 13 | 10 | 1¾ hole in 1 iron | 2 round and 1 x 8 |
| 14 | 10 | 1½ hole in 1 iron | 1⅞ round and 1⅛ x 7 |
| 14½ | 9 | 1 hole in 1 iron | 1¾ round and 1 x 6 |
| 14B | 24 | 1 hole in 1 iron | 1¾ round and 1 x 6 |
| 15 | 8 | ¾ hole in ⅝ iron | 1⅜ round and ⅞ x 5 |
| 16 | 8 | ⅝ hole in ½ iron | 1¼ round and ¾ x 6 |
| 17 | 8 | ½ hole in ⅜ iron | 1⅛ round and ⅝ x 3 |
| 18 | 6 | ⅜ hole in ¼ iron | 1 round and ½ x 3 |
| 19 | 6 | ⅜ hole in ¼ iron | ¾ round and ¼ x 2¾ |

Note. In the above table, the depth of throat given is the smallest regularly furnished in each size. The same are also built with greater throat depth up to any practical requirement.

Prices upon application.

## CASKEY PORTABLE PNEUMATIC PUNCH.

For shipbuilders, railroad shops, boiler and tank makers, structural iron and bridge works, mining and conveying machinery makers, contractors, etc., etc.

Wherever it is easier quicker or cheaper to move the tool than the work, there is the place for a Caskey Punch. One man operates the Caskey Punch. The work is stationary, and one man can guide and control a moderate weight more quickly and accurately than a number of men. He can, under ordinary conditions, do more work, with less liability to error

### Dimensions and Standard Sizes

| Size | Weight | Gap Punch Throat | Travel | Will Punch up to Inches | Free Air Used Per Stroke |
|---|---|---|---|---|---|
| 00 | 33 lbs | 2½ in | ⅜ in | | ⅛ cubic ft |
| 0 | 55 lbs | 3¼ in | ½ in | 11/32 through 3/16 | ½ cubic ft |
| 1 | 130 lbs | 4 in | ¾ in | 7/16 through ⅜ | 1 cubic ft |
| 2 | 300 lbs | 6 in | 15/16 in | ¾ through ½ | 2½ cubic ft |
| 3 | 720 lbs | 6 in | 1 in | 14/16 through ¾ | 5½ cubic ft |

Size 4 in preparation

Punches for special work to order. Any size may be supplied with hook having gap up to 30 inches or hook with horizontal ram, when required

Prices given upon application

Fig 1503

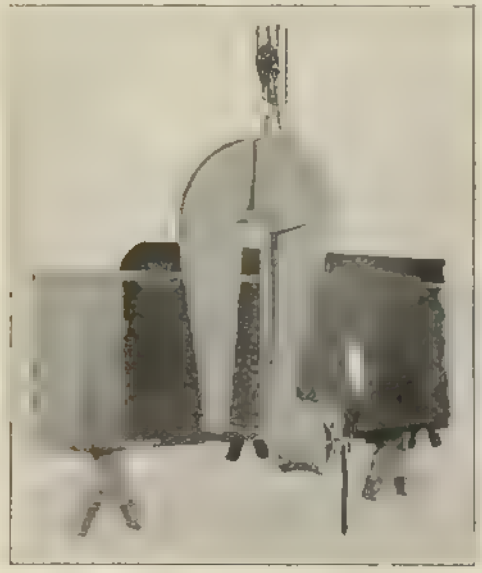


Fig. 1504

## TANK RIVETER.

This machine consists of a cast steel frame having a reach of 60 inches and a gap of 9 inches. Attached to one end of frame is a 16 inch double cylinder. The machine is so arranged that it can be handled in either an upright or horizontal position.

On straight work the machine will drive 300 ½-inch rivets in one hour.

Weight, 1000 lbs.

Prices furnished upon application.

## PNEUMATIC BRIDGE RIVETER.

These machines are made for general bridge and structural iron work. They are simple in construction, economical in air consumption adapted to a wide range of work, evenly balanced and as light as possible consistent with strength

These machines are made in five sizes based on diameter of rivets to be driven. The diameters of cylinders, strength of yoke and working parts vary according to size Buyers should state size of rivets to be driven

### Bridge Riveters are Made with Following Depth of Throats

| Throat | Jaws | Throat | Jaws |
|---|---|---|---|
| 12 in | 12 in. apart | 48 in. | 15 in. apart |
| 18 in | 15 in apart | 68 in. | 15 in. apart |
| 26 in | 15 in apart | 75 in. | 15 in. apart |
| 36 in | 20 in apart | 84 in. | 15 in. apart |

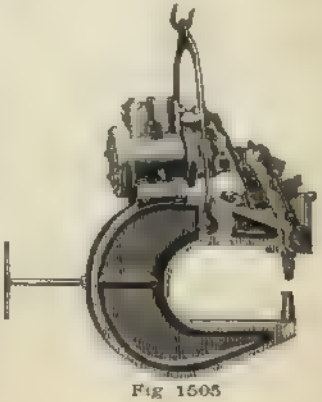


Fig 1505

## ACME HEADING AND FORGING MACHINE.

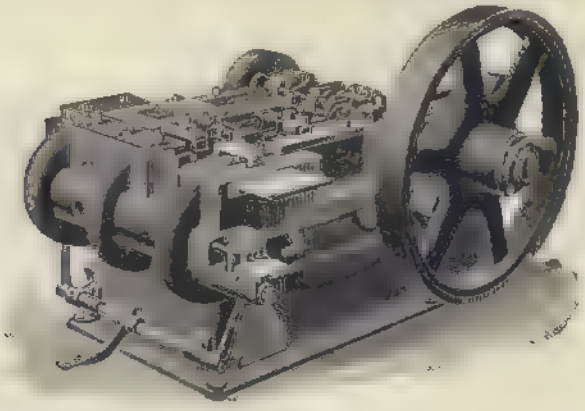


Fig. 1480

**Acme 1½ Inch Heading and Forging Machine.**

This machine is one of the best on the market for railroads, car builders, bridge builders and structural iron works, where large quantities of rivets, square and hexagon head bolts, track bolts, upsets and special forgings are made daily. Perfect square and hexagon head bolts are made in three blows; rivets and track bolts are cut from the bar and headed in one blow.

Made in sizes: 1, 1½, 2, 2½ and 3 inches.

Details and prices furnished upon application.

## MULTIPLE SPINDLE NUT TAPPERS.

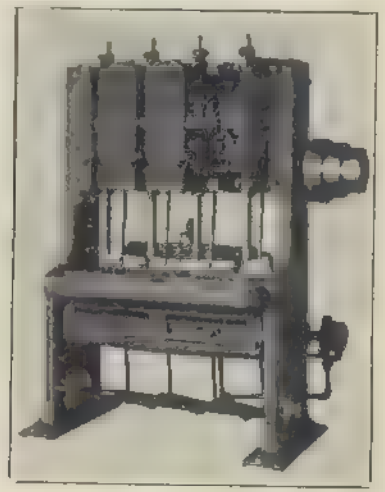


Fig 1481

| Size Inch | Number Spindles | Sizes will tap | Net Weight lbs | Price Complete |
|---|---|---|---|---|
| 1 | 4 | ⅜, ½, ⅝, ¾, ⅞, 1.....inches | 3300 | $400.00 |
| 1½ | 6 | ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜, 1½..... " | 5000 | 610 00 |
| 2 | 6 | ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜, 1½, 1¾, 2 " | 6600 | 695 00 |

Complete machine includes rotary pump, countershaft, wrenches, chip-pans, one quick acting spring socket for each size and one tapper tap for each size.

Taps can be removed and replaced while the machine runs at full speed,

## THE STEEL CHAMPION ROAD MACHINE.

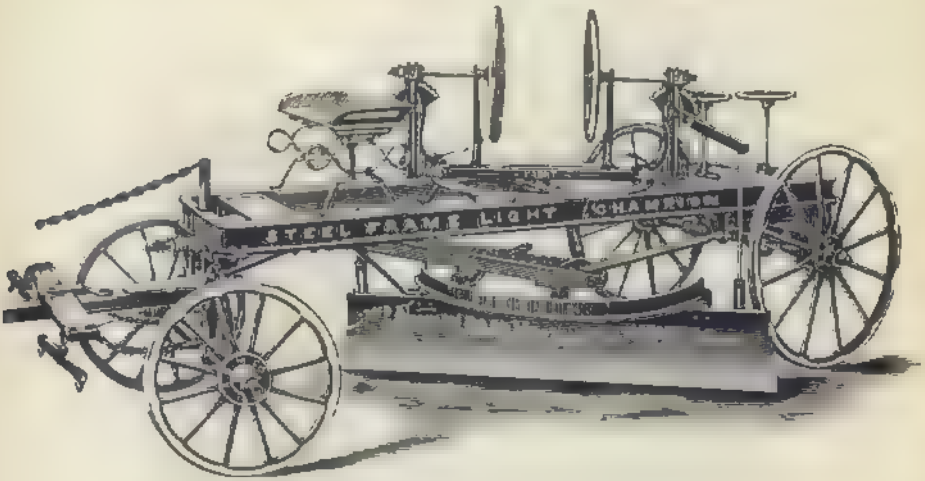



Fig. 1044.

The Steel Champion Road Machine.

**The Steel Champion—The simplest and most durable road machine made**
**Weight, 2250 pounds. Length of Scraper Bar, 8 feet.**
**Furnished with wood or steel wheels, long cutting edge in one piece or three sections as desired**

**CONSTRUCTION.**—The only way to build a road machine that will be reasonably light in weight, and at the same time strong and durable, is to use the best materials. This fact has been faithfully borne in mind in the construction of the Steel Champion. The materials used are of the best that can be obtained, regardless of cost. The main frame is of three-eighths channel steel, and we challenge anyone to show where the frame of Steel Champion has ever broken. The sweep circle upon which sweep revolves, with gear rods, lift rods, draw bar, semi-circle, axles, main blade, and cutting edge are also of the best quality of steel.

**THE LIFTING DEVICE.** The hand wheel levers, working on the screw principle is the simplest and most powerful device that can be employed for raising and lowering the blade. By means of this device it is not necessary to use latch catch or spring, and the hand wheels are always automatically self locking.

**THE SHIFTING REAR AXLE.**—By means of the long rear axle the frame of the machine can be shifted laterally from side to side when one handles cutting down banks and moving earth, without the usual slipping, so common to other machines. Because of this valuable improvement and the eight foot blade the Steel Champion will move more earth in a given time than any other machine made.

**THE LATERAL ADJUSTMENT OF THE BLADE.** The Steel Champion is so constructed that the blade can be adjusted laterally either at the front or the rear of the machine. This enables adjusting the blade from eighteen to twenty-four inches outside of the line of the wheels, making the Steel Champion an excellent machine for cutting down banks or filling ditches.

**THE REVERSIBLE BLADE.**—The blade is easily and quickly reversed from a right to a left hand cut by the operator without leaving his position on the machine. It can be set at any angle from thirteen degrees to straight across.

Prices upon application

## THE CHAMPION STEEL REVERSIBLE ROAD ROLLER.

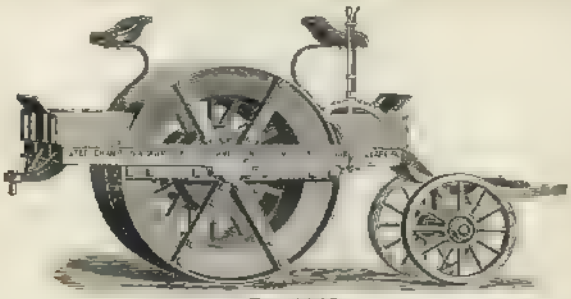


Fig. 1045

A Champion Roller, 2½ tons in weight, will exert a pressure of 84 pounds per lineal inch on the roadbed, and to arrive at the amount of pressure the heavier rollers would exert, add 34 pounds for each ton. Thus it will be seen that a roller 5½ tons in weight, with boxes loaded making it 7½ tons in weight, will exert a pressure of 255 pounds per lineal inch, all that is ever desired.

The Champion is one of the most practical horse road rollers on the market. It is built of steel throughout in two sections, with a five foot face giving a rolling width of five feet, and is five feet in diameter. Each roll revolves independently of the other on a steel axle four inches in thickness. The pole is not attached to the roller direct but to a truck, which is attached to the steel frame of the roller by means of an automatic coupler. Prices upon application.

## EDWARDS STUMP PULLER.

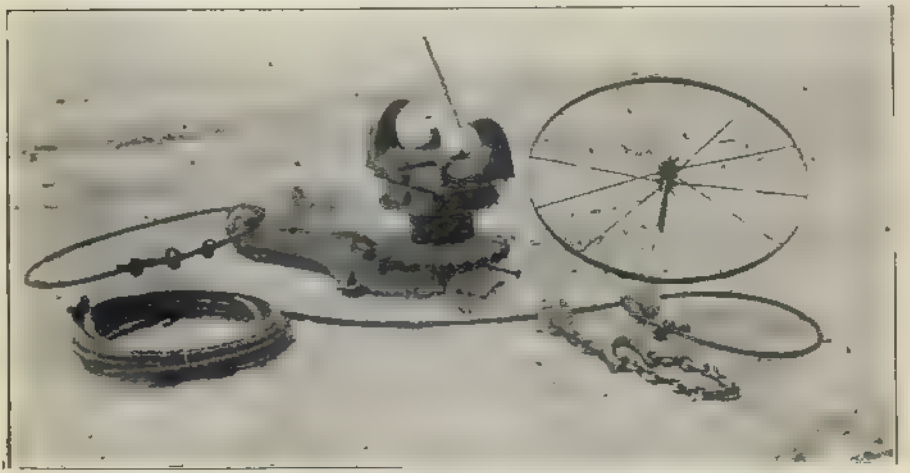


Fig. 1046 Climax Puller

Cut shows the respective parts of a complete **Climax Grub and Stump Puller.** Cross Sill and Sweep are not included in a complete machine, or furnished from the factory. Seventy-five feet of ¾ inch diameter English Plow Steel Wire Rope having a test of 60 000 lbs breaking strain, are furnished with the Climax. A forged Steel, jointed Rope Hook is attached to this rope for making the hitch around the stump. With this amount of rope and the extra reach of the Anchor Rope, a circle of 160 feet can be cleared at each setting. Price, $55.00.

The **Jumbo Grub and Stump Puller** is a powerful and well arranged machine, intended for the heaviest kind of pulling. To meet the requirements of those having lands that are heavily timbered and wanting a machine of greater power than the Climax Puller, the Jumbo is intended. Only three castings being the Base, Drum and Sweep-Head, all weighing 800 pounds. Price, $75 00.

## THE "HOOSIER" PATENT SELF-FEED RIP SAW.

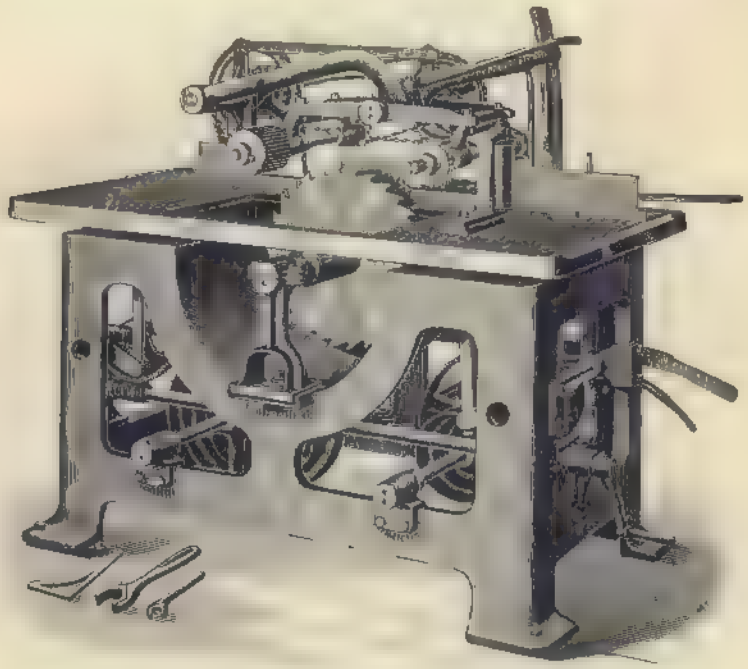


Fig 1834

### Description.

Frame cast all in one piece and planed perfectly true. Has a square raising table, operated by right and left hand worm wheels and worms, and is always firmly locked at any point, thus preventing the table from slipping. The saw mandrel is made of 1¾ inch diameter steel and runs in two 6 and two 4 inch boxes, babbitted with silver babbit. The sliding box on end of mandrel is easily and quickly removed for changing saw, the mandrel between the saw collars is 1⅜ inch diameter by 8½ inches this space is filled with collars of different thicknesses, driving pulley on mandrel is 8 x 8 inches. The board gauge is all iron and is operated by a lever, and is firmly locked at any point by a lever and screw. The front end of table has a graduated scale for operating board gauge. This machine will rip stock 6 inches thick and by placing saw on outer end of mandrel, will take in stock 17 inches between board gauge and saw. Machine is provided with patent feeding device. This feed is driven from saw mandrel by 2 and 2½ inch belts and sprocket chain, and the feed can be stopped by clutch and lever while machine is in motion. The machine has four different feeds: 35 feet, 75 feet, 100 feet and 130 feet per minute.

The machine is provided with a resaw attachment for making beveled siding without extra cost. Floor space is 50 x 54 inches. The table can be raised 6 inches. Countershaft is provided with 10 x 8 tight and loose pulleys; the drive pulley is 20 x 8, speed of countershaft should be 1,200 so as to run the saw 3,000. Machine complete, with countershaft, weighs 2,200 pounds.

Price ..... $175.00.

## IMPROVED CUT-OFF SAWING MACHINE.

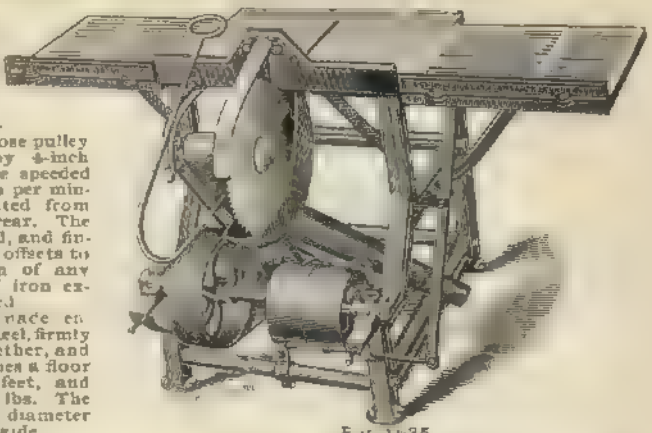


Fig 1635

Used for cutting stock for boxes, sash, doors, furniture and general work, and in saw mills.

Countershaft carries a tight and loose pulley 8-inch diameter by 4-inch face, and should be speeded to 800 revolutions per minute. It can be belted from above, below or rear. The top is nicely planed, and finished at ends with offsets to receive extension of any length required, if iron extensions are not used.

The machine is made entirely of iron and steel, firmly and neatly put together, and well finished, occupies a floor space of 3 x 3½ feet, and weighs about 545 lbs. The saw is 16 inches in diameter and cuts 18 inches wide.

When cut is finished saw drops back under an iron guard which makes it one of the safest machines for the operator on the market. When machine is shipped it has one 16-inch saw, and belt as shown in cut. Price, $

## THREE SPINDLE HORIZONTAL BORING MACHINE.

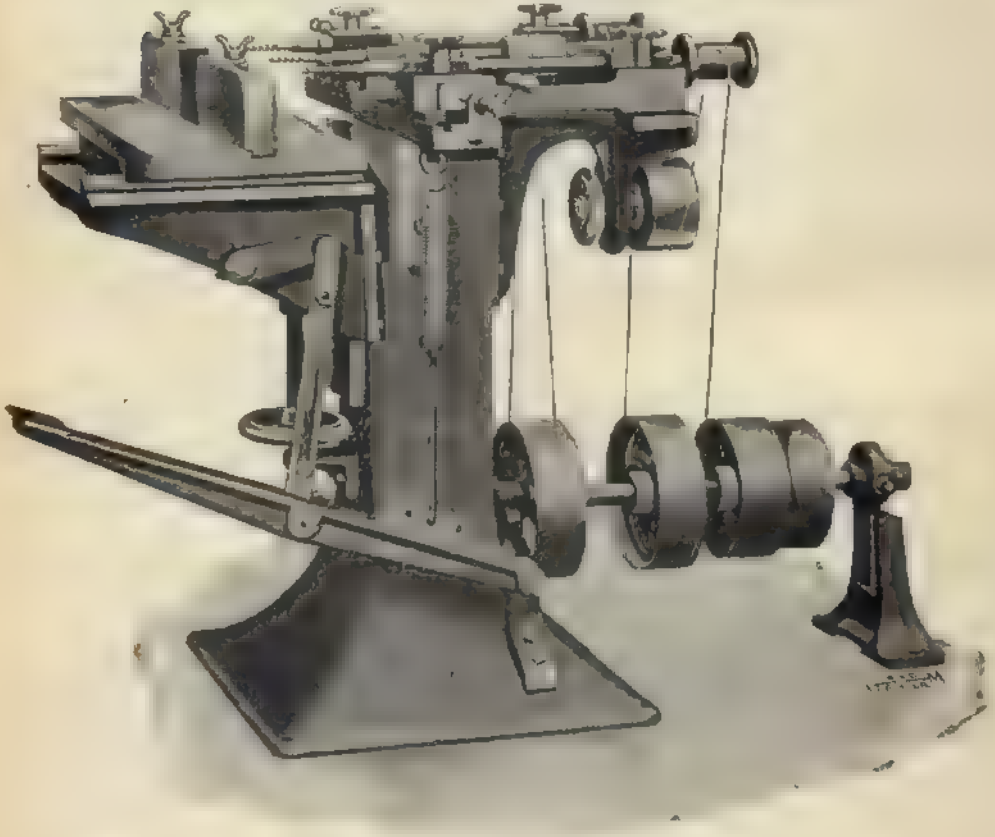


Fig 1636

| Weight in Pounds | Floor Space Required | Size of T. & L. Pulleys on C. S. | Speed of C. S. Revolutions | Average Horse Power | List Price |
|---|---|---|---|---|---|
| 650 | 3 ft x 4 ft. | 9 in x 4 in | About 500 | 1 to 2 | $200 00 |

## BRADLEY POWER HAMMERS.

Bradley Hammers are made in Helve Upright Strap and Upright Helve with heads ranging from 15 lbs. to 500 lbs. and capable of forging iron steel and other metals from 6 inches square down.

### BRADLEY HELVE HAMMER.

| | | |
|---|---|---|
| 15 lb. | Head | $225 00 |
| 25 " | " | 300 00 |
| 40 " | " | 450 00 |
| 60 " | " | 600.00 |
| 80 " | " | 750 00 |
| 100 " | " | 850 00 |
| 200 " | " | 1000 00 |

There is no other Cushioned Helve Hammer. No Hammer with which to compare it.

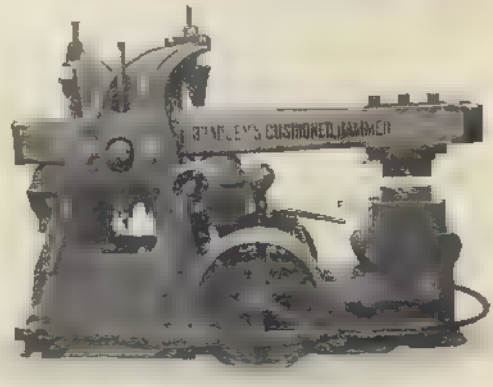



Fig. 1514.

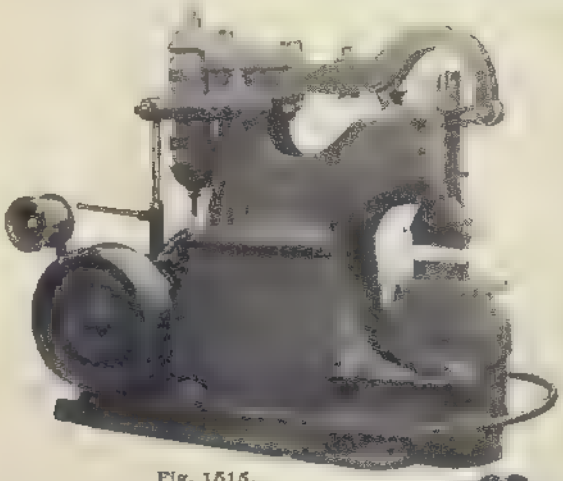


Fig. 1515.

### BRADLEY UPRIGHT STRAP HAMMER.

| | | |
|---|---|---|
| 15 lb. | Head | $200 00 |
| 30 " | " | 300.00 |
| 50 " | " | 450.00 |
| 75 " | " | 500.00 |
| 100 " | " | 600.00 |
| 125 " | " | 650.00 |
| 150 " | " | 750.00 |
| 200 " | " | 850.00 |

These Hammers weigh ⅛ to ½ more than any others of the same rated capacities.

### BRADLEY FORGES.

For Hard Coal or Coke.

| No. | | | |
|---|---|---|---|
| 6. | Grate | 9x 9, | $30.00 |
| 7. | " | 9x14, | 40.00 |
| 8. | " | 9x18, | 50.00 |
| 9. | " | 14x23, | 55.00 |
| 10. | " | 9x41, | 70.00 |
| 11. | " | 23x28, | 90.00 |
| 12. | " | 14x74, | 125.00 |

Designed to produce forging heats, not welding heat.

Prices do not include fire bricks for lining, but we can furnish them if desired.

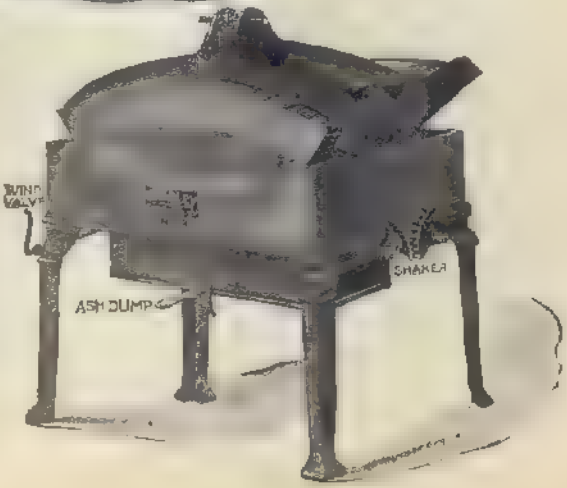



Fig. 1516.

## STANDARD BULLDOZER.

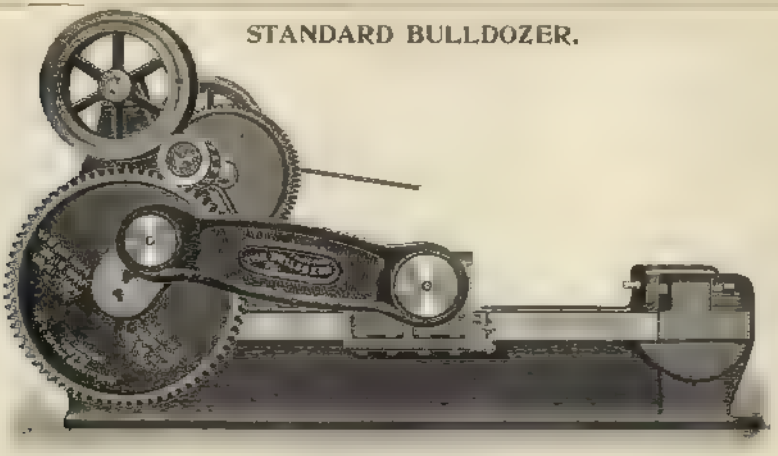


Fig. 1517.

Table of Dimensions.

| Number. | Length Over All. | Width Over All | Face of Crosshead, Inches | Movement of Crosshead, Inches | Space for Dies, with crosshead forward, Ins |
|---|---|---|---|---|---|
| 1 | 7 ft. 6 in. | 3 ft. | 29½x 5 | 14 | 24 |
| 2 | 8 ft. 6 in. | 3 ft 7 in. | 34½x 6¾ | 16 | 30 |
| 3 | 9 ft. 3 in. | 4 ft. | 39 x 7 | 16 | 30 |
| 4 | 10 ft. 8 in. | 4 ft 7 in. | 45½x 7½ | 18 | 38 |
| 5 | 11 ft. 8 in. | 6 ft 3 in. | 63 x11¾ | 20 | 38 |
| 6 | 12 ft. | 6 ft. 3 in. | 63 x11¾ | 20 | 38 |
| 7 | 15 ft. 5 in. | 6 ft. 9 in. | 70 x16 | 22 | 48 |
| 8 | 15 ft. 5 in. | 7 ft. 4 in. | 72 x16 | 24 | 48 |
| 9 | 17 ft. 10 in. | 8 ft. | 80 x16 | 24 | 56 |

Fig. 1518. No. 2.

We recommend for car work the No 8 and No 4, together, or No. 8 and No. 3, No. 3, or even No 2 will do the lighter work much better than the small air benders in use in many railroad shops.

The agricultural implement manufacturers use Nos. 2, 3, 4, and occasionally 5 and 6. Nos. 3 and 4 most generally Wagon companies use Nos. 3 and 4 Bridge companies take No. 6 or larger. The railway specialty companies, who make brake beams, car trucks, etc., take the larger machines. For mine car work, generally either No. 3 or No 4 is used.

Also furnished with motor direct connected

## EYE BENDING MACHINES.

These machines are used to bend not only round eyes, but all varieties of hooks, U's, square bends and other shapes within the range of the machine, from rounds squares and flats.

No 1. Machine bends eyes from ⅞ inch iron and less.

No. 2 Machine is from a later and different design. It handles heavier stock and has the following special features, viz.

1st. Adjustable stroke same as metal working planer.

2d. Narrow belts.

3d. Exceptionally long bearing for the revolving head.

All machines have three dies, the lower and upper clamping dies, besides the revolving or bending dies.

Prices upon application.

## COLUMBUS GASOLINE ENGINES.

### Portable Type.

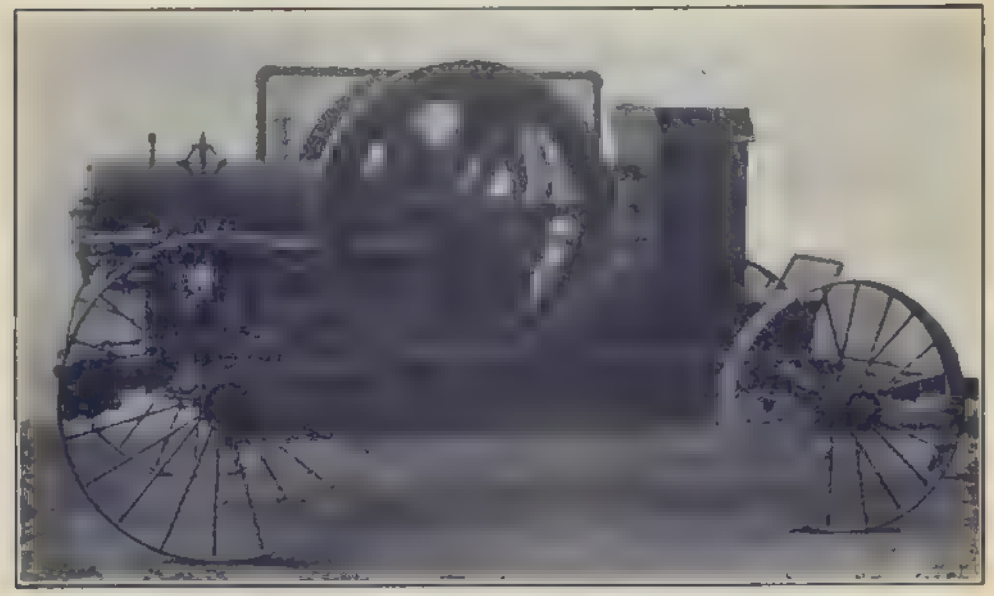


Fig 1360

### General Description—Continued.

**The Exhaust Valve** is seated under the pressure of a spiral spring strong enough to resist suction of the piston and on the outward stroke a fresh mixture of gas and air is again drawn into the cylinder and this cycle of operations is repeated until the speed of the governor rises above normal and upon so doing the governor will operate on the exhaust valve in such a manner as to prevent it from seating and at the same time operate upon the igniter in such a way as to prevent the electrodes from being brought into contact, thus saving the batteries and electrodes from unnecessary wear.

**The Governor,** by preventing the exhaust valve from seating, leaves an open passage from the cylinder to the atmosphere. The passage is large enough that the out stroke of the piston will fill the cylinder with air drawn in through this passage without raising the mixture valve and upon the return stroke this air is forced out through the exhaust port which is being held open, thus avoiding useless compression. This operation is repeated until the speed of the governor returns to normal, allowing the exhaust valve to seat and the igniter to operate.

**Special Features** of this engine are that in connection with an extremely sensitive governor it is provided with means for taking up its load on any revolution after it has cut out. In addition to this feature the valves of this engine are operated by positive mechanical means and do not depend upon the suction in the cylinder to open the fuel valve, thus saving the violent wear upon this valve by the sudden action of compression. A further feature is that the explosion head of the cylinder is cast solid with it, thus doing away with a packing joint at the head. The separate plate on the head of the cylinder is simply a water plate closing the water jacket space around the cylinder. The connecting rod is designed also with special care and provision is made for conveniently taking up the piston end by means of tightening a single nut which draws up an adjusting wedge for tightening the brasses. The crank end of the rod is of the marine type but is provided with a double shoulder bearing so as to dispense with liners. The crank oil cup is located on the wrist of the connecting rod, thus making it possible to carry the oil freely through the center without passing around the bolts.

## "STRAIGHT LINE" AIR COMPRESSOR, CLASS "A."

**Steam Driven, Piston Inlet.**

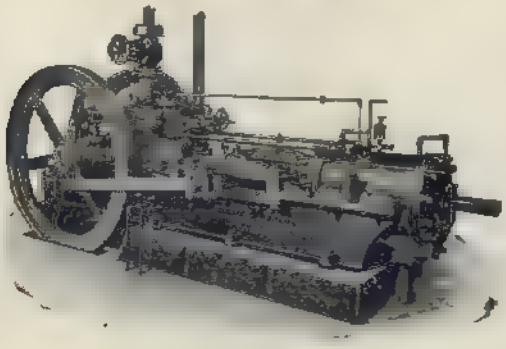


Fig. 1362

**Water-Jacketed Air Cylinder and Heads.**

This compressor is complete in itself, both the steam and air cylinder being on one solid bed. All strains are direct. Owing to the size and strength of the bed-plate expensive foundations are not necessary, and whatever the foundation may be it is impossible for the compressor to get out of line.

Table of Capacities, Dimensions, Etc.

| Cylinders | | | Revolutions per Minute | Capacity in Cubic Feet Free Air | | | | Horse Power | | Size of Pipes | | | | Fly-Wheels and Shaft | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | | Stroke | | Piston Speed Feet per Minute | Per Minute | Per Revolution | Air Pressure in Pumps per Sq. Inch | | | Steam Inlet Inches | Steam Exhaust | Air Discharge Inches | Circulat'g Water | Diameter of Wheels | Diameter of Shaft |
| Steam | Air | | | | | | | | | | | | | | |
| 10 | 10¼ | 12 | 160 | 320 | 177 | 1 105 | 50 100 | 23 | 35 | 2½ | 3in | 3 | ¾in | 3ft 4in | 4 in |
| 12 | 12¼ | 14 | 155 | 361 | 285 | 1,839 | 50 100 | 37 | 57 | 3 | 4in | 3½ | ¾in | 4ft 4in | 5 in |
| 16 | 16¼ | 18 | 120 | 360 | 498 | 4.147 | 50 100 | 63 | 100 | 4 | 5in | 4 | ¾in | 5ft 6in | 6 in |
| 18 | 18¼ | 24 | 94 | 376 | 656 | 6 975 | 50 100 | 86 | 131 | 5 | 5in | 5 | 1 in | 7ft 0in | 7 in |
| 20 | 20¼ | 24 | 94 | 376 | 807 | 8 589 | 50 100 | 106 | 161 | 5 | 6in | 5 | 1 in | 7ft 0in | 7 in |
| 22 | 22¼ | 24 | 94 | 376 | 973 | 10.354 | 50 100 | 127 | 194 | 5 | 6in | 5 | 1 in | 7ft 0in | 7 in |
| 24 | 24¼ | 30 | 80 | 400 | 1223 | 15.294 | 50 100 | 161 | 242 | 6 | 7in | 6 | 1 in | 8ft 0in | 8 in |

The above represent regular standard sizes of steam and air cylinders of equal diameter, suitable for running rock drills coal cutters and other machines requiring air pressure of 60 to 100 pounds. Size 16x16¼ and larger sizes are furnished with Myer's adjustable cut-off on steam engine. Prices include automatic steam and air pressure regulator, with unloading device. All sizes are furnished with automatic sight feed lubricators for air and steam cylinders, all necessary oil cups, wrenches, foundation bolts and washers. Foundation plans furnished with each compressor, also printed instructions for erecting and operating. Special designs for any duty built to order, or sectionalized for mule-back transportation.

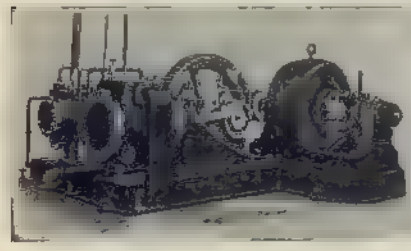


Fig. 1363

## "CLASS J" DUPLEX COMPOUND AIR COMPRESSOR.

**Electrically Driven.**

Railroads can use to advantage air compressors for throwing switches. Only the safest and best air compressor is fit to serve to move railway switches. Catalogue with description and detailed specifications furnished upon application.

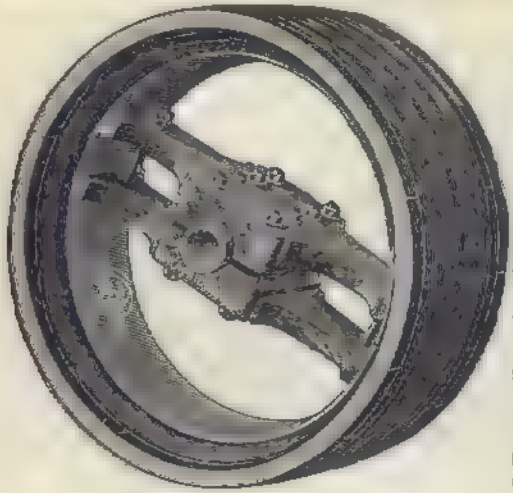


Fig. 853

## DODGE PATENT INDEPENDENCE WOOD SPLIT PULLEYS.

Every pulley is guaranteed to transmit from 25 to 60 per cent more power than iron with the same tension of belts.

They are 70 per cent lighter than iron pulleys.

They can be used on different sizes of shaft.

They are in perfect balance.

All wood split pulleys are sufficiently strong for the heaviest double leather belts.

Price List.

| Diam. Ins | WIDTH OF FACE IN INCHES. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 |
| 9 | $2 60 | $2.80 | $3.00 | $3 25 | $3.75 | $4.30 | $5.00 | $5.80 | $6.60 | | | |
| 10 | 2.80 | 3.00 | 3 25 | 3 50 | 4 00 | 4.65 | 5 40 | 6.20 | 7.00 | | | |
| 11 | 3 00 | 3.25 | 3.50 | 3 75 | 4.30 | 5.00 | 5.80 | 6.60 | 7.50 | | | |
| 12 | 3 15 | 3 40 | 3 65 | 3 90 | 4 55 | 5.30 | 6 .0 | 6 90 | 7 90 | 9 10 | $10.40 | $11.80 |
| 13 | 3 30 | 3 55 | 3 80 | 4.10 | 4.80 | 5.60 | 6.40 | 7.30 | 8.40 | 9.60 | 11 00 | 12 50 |
| 14 | 3.45 | 3.70 | 4.00 | 4.35 | 5.10 | 6.00 | 6.90 | 7 90 | 9 10 | 10.40 | 11 80 | 13 40 |
| 15 | 3.60 | 3.90 | 4.25 | 4.60 | 5.45 | 6.35 | 7.30 | 8.40 | 9 60 | 11 00 | 12 60 | 14 20 |
| 16 | 3.80 | 4.15 | 4 50 | 5.00 | 6.00 | 7.00 | 8.00 | 9.00 | 10 30 | 11 80 | 13 40 | 15 10 |
| 17 | 4 00 | 4 40 | 4 90 | 5 40 | 6.40 | 7.40 | 8.40 | 9 50 | 11.00 | 12 60 | 14 20 | 16 00 |
| 18 | 4 20 | 4 70 | 5 20 | 5 70 | 6 70 | 7 80 | 9.00 | 10 30 | 11 90 | 13 50 | 15 20 | 17 00 |
| 20 | 4 60 | 5 20 | 5 80 | 6 40 | 7 60 | 9 00 | 10.40 | 12 00 | 13 80 | 15 60 | 17 50 | 19 60 |
| 22 | 5 00 | 5 60 | 6 10 | 7.00 | 8 40 | 10 00 | 11 70 | 13 50 | 15.50 | 17 70 | 20 00 | 22 40 |
| 24 | 5.50 | 6 20 | 7 00 | 7.80 | 9 40 | 11 20 | 13 00 | 15.30 | 17.70 | 20 20 | 22 80 | 25 40 |
| 26 | 6 20 | 7 00 | 7 80 | 8 60 | 10 50 | 12 60 | 15 00 | 17.60 | 20.40 | 23 30 | 26 30 | 29 50 |
| 28 | 7 00 | 7 80 | 8 60 | 9.50 | 11 60 | 14 00 | 16 50 | 19.40 | 22.40 | 25 60 | 28 80 | 32 00 |
| 30 | 7 70 | 8 60 | 9 50 | 10 60 | 13 00 | 15 60 | 18.50 | 21.50 | 25.00 | 28 50 | 32 00 | 35 50 |
| 32 | 8.50 | 9 50 | 10 50 | 11.60 | 14 10 | 17 00 | 20 30 | 23.80 | 27 40 | 31 00 | 35 00 | 39 00 |
| 34 | 9 40 | 10 60 | 11 80 | 13.10 | 15 90 | 19 00 | 22 50 | 26 10 | 29.80 | 33 60 | 37 80 | 42 20 |
| 36 | 10 30 | 11 70 | 13.10 | 14.80 | 17 70 | 21 00 | 24 00 | 28.00 | 32.00 | 36 00 | 40.00 | 45 00 |
| 38 | | 12 80 | 14.40 | 16.00 | 19 50 | 23 00 | 26 00 | 30.00 | 34.00 | 38 00 | 43 00 | 48.00 |
| 40 | | 13 90 | 15 70 | 17 50 | 21 25 | 25 00 | 28 00 | 32.00 | 36 00 | 41 00 | 46.00 | 51 00 |
| 42 | | 15 00 | 17 00 | 19 00 | 23 30 | 27 00 | 31.00 | 35.00 | 39.00 | 44 00 | 49 00 | 55 00 |
| 48 | | 21.00 | 23 00 | 25 00 | 29 00 | 33 00 | 38 50 | 43.00 | 48 00 | 54 00 | 61 00 | 70 00 |
| 54 | | | 31.00 | 32 00 | 36 00 | 41 20 | 46 00 | 52.00 | 59 00 | 66.00 | 75.00 | 85 00 |
| 60 | | | | 41 00 | 45 00 | 49 00 | 55.00 | 62 00 | 71.00 | 80.00 | 90.00 | 100.00 |
| 66 | | | | 48 00 | 52 00 | 57 00 | 64 00 | 73 00 | 83.00 | 93.00 | 103.00 | 115.00 |
| 72 | | | | 54.00 | 58 00 | 66 00 | 75 00 | 85 00 | 95 00 | 105.00 | 117.00 | 130.00 |
| 84 | | | | | 86.00 | 96 00 | 107 00 | 118 00 | 130 00 | 143.00 | 156.00 | 170.00 |
| 90 | | | | | 100.00 | 114.00 | 128 00 | 142 00 | 157 00 | 173.00 | 189.00 | 206 00 |
| 96 | | | | | 115.00 | 132 00 | 149.00 | 166 00 | 181 00 | 203 00 | 222.00 | 241 00 |

For smaller sizes see next page.

Pulleys any size from 24 inch diameter and upwards are furnished with bore for 3½ inch shaft, and all pulleys below 24 inch in diameter for 3 inch shaft

Each pulley is furnished with one wood bushing to fit any size shaft wanted. Pulleys of larger bore furnished to order.

Pulleys 40 inches and over in diameter, furnished with four arms.

In ordering pulleys give diameter width of belt to be used on pulley, exact bore and say whether face is to be straight or crowning.

# THE ALL-WROUGHT STEEL SPLIT PULLEY.

Made exclusively of a "mild" sheet steel, accurately rolled to standard gauges, no castings or forgings entering into its make up. The various parts are cut from sheet metal and cold-pressed into the requisite forms by machinery especially designed for that work.

A Strength and Rigidity that renders the All-Steel Pulley practically indestructible.

A Weight two thirds less than that of the ordinary cast-iron Pulley; and about that of most wooden ones.

A Pulley that is true running, perfectly balanced, and positively safe under highest speed.

The All-Steel Pulley is rendered interchangeable by the use of metal bushings, and will fit shafts of different diameters.

Fig. 851. Bushings.

Fig. 852. Complete Pulley, Side View.

## Price List.

| Diameter in Inches | Face in Inches | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 |
| 6 | $3 15 | $ 3 30 | $ 3 45 | $ 3 75 | $ 4 05 | | | | | |
| 7 | 3.22 | 3.38 | 3.60 | 3 90 | 4.20 | | | | | |
| 8 | 3.30 | 3.45 | 3.75 | 4 05 | 4.35 | $ 4 95 | $ 5.60 | | | |
| 9 | 3 38 | 3.60 | 3.90 | 4.20 | 4.50 | 5 10 | 5.75 | | | |
| 10 | 3.45 | 3.75 | 4.05 | 4.35 | 4.65 | 5 25 | 5.90 | $ 6 45 | | |
| 11 | 3 65 | 3.90 | 4.20 | 4.50 | 4.80 | 5 40 | 6 00 | 6 90 | | |
| 12 | 3 90 | 4.20 | 4 65 | 4.80 | 5 33 | 5 78 | 6 45 | 7 65 | | |
| 13 | 4 05 | 4.35 | 4 80 | 5.20 | 5.62 | 6 43 | 7 20 | 8 40 | | |
| 14 | 4.20 | 4 50 | 5 20 | 5 65 | 6.15 | 7 05 | 8 02 | 9 [illegible] | | |
| 15 | 4 35 | 4.65 | 5 45 | 5.80 | 6 55 | 7 65 | 8 8[illegible] | 9 75 | | |
| 16 | 4.50 | 4.95 | 5.75 | 6.10 | 6 90 | 8 25 | 9 45 | 10 50 | | |
| 17 | | 6 25 | 6 00 | 6 50 | 7.28 | 8 78 | 10 05 | 11 25 | | |
| 18 | | 5.55 | 6 38 | 7 00 | 7 65 | 9 30 | 10 65 | 12 00 | | |
| 19 | | 5.80 | 6.75 | 7 50 | 8.25 | 10 13 | 11 25 | 12 90 | | |
| 20 | | 6.00 | 7.50 | 8.10 | 9.00 | 1 [illegible] 3 | 12 00 | 14 25 | | |
| 21 | | 6 25 | 8 00 | 8 60 | 9 60 | 11 25 | 12 98 | 15 60 | | |
| 22 | | 6 50 | 8 55 | 9 30 | 10 28 | 12 60 | 14 10 | 16 80 | | |
| 23 | | 7 00 | 8 70 | 9 90 | 10 58 | 12 60 | 14 75 | 18 00 | | |
| 24 | | 7 50 | 8 93 | 10 00 | 10 95 | 13 70 | 15 68 | 19 05 | | |
| 26 | | | 9 55 | | 11 95 | 14 40 | 17 10 | 21 30 | $26 25 | $31 20 |
| 28 | | | 10 80 | | 12 90 | 15 45 | 18 15 | $22 90 | 28 50 | 34 50 |
| 30 | | | 12 00 | | 14 10 | 17 25 | 19 90 | 24 75 | 31.50 | 38 10 |
| 32 | | | 13 20 | | 15 45 | 19 35 | 22 50 | 28 86 | 34 15 | 41 65 |
| 34 | | | 14 40 | | 17 25 | 21 75 | 25.60 | 30.00 | 36 75 | 45 00 |
| 36 | | | 15 90 | | 19 50 | 24 00 | 28.65 | 33 75 | 39 75 | 48.60 |
| 38 | | | 19 50 | | 21 75 | 26 40 | 31.05 | 37.15 | 42 75 | 51.75 |
| 40 | | | 21 00 | | 24 00 | 28 50 | 33 75 | 40.15 | 46 50 | 55 15 |
| 42 | | | 23 25 | | 26 25 | 32 25 | 37 50 | 43.50 | 50.25 | 57.75 |

## Table of Hubs and Bores

| Diameter | Face in Inches. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 |
| 6 | 1[illegible] Bore 3[illegible] Hub | | | 1[illegible] Bore 4[illegible] Hub | | | | | | |
| 7 | 1[illegible] or 2[illegible] Bore 3[illegible] Hub | | | 2[illegible] Bore 4[illegible] Hub | | | | | | |
| 8 | | 2[illegible] Bore 3[illegible] Hub | | Bore 4[illegible] Hub | | 2[illegible] Bore 4½ Hub | | | | |
| 9 | 2[illegible] Bore or 2[illegible] Bore 4½ Hub | | | or 2[illegible] Bore 4½ Hub | | | | | | |
| 10 | 2½ Hub | | | | | | | | | |
| 11 | | | | 2[illegible] Bore 4[illegible] Hub | | 2[illegible] or 2[illegible] Bore 5½ Hub | | | | |
| 12 | | 2 7/16 Bore 3½ Hub or 2 1/16 and 3 7/16 Bore 4½ Hub | | or 2[illegible] and 3[illegible] Bore 5[illegible] Hub | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 17 | | 2 7/16, 2 11/16 or 3 7/16 Bore 4½ Hub | | 2 11/16 or 3 7/16 Bore 5½ Hub | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 21 | | 2 11/16 or 3 7/16 Bore 4½ Hub | | | | | | | | |
| 22 | | | | | | | 3 7/16 Bore 5½ Hub | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 26 | | | 3[illegible] Bore, [illegible] Hub or 4[illegible] Bore 6½ Hub | | | | 4[illegible] Bore 6[illegible] Hub | | | |
| 28 | | | | | | | | | | |
| 30 | | | | | | | | | | |

## PADLOCKS.

For Railroad Switches, Freight Cars, Tool Houses and Locomotives.

Fig. 1220
Standard Switch Lock.

Fig. 1221

½ size illustration of No. 636. Actual size of lock is 2¾x3 ⅜x⅝. Cast Bronze Gun Metal spring shackle and locking spring. Cap cover over key hole. All brass inside work. 10 inch heavy japanned steel chain.

Price List.

| | $ |
|---|---|
| Rough Finished, per dozen | |
| Polished, per dozen | |
| Brass Keys, per dozen | |

**Fig. 1222**
No. 5
Size, 2½ inches
Solid Bronze,
Per doz...$.....

**Fig. 1223**
No. 58
Size .... inches.
Solid Bronze.
Per doz ..$.....

**Fig. 1224**
No. 116
Size, 1⅝ inches,
Solid Bronze,
Per doz . $. .....

**Fig. 1226**
**No. 183.**
Size 1⅝ inches
Malleable Iron.
Self Locking.
Per doz. .$ . .....

**Fig. 1226**
**No. 511.**
Size, 1⅝ inches.
Malleable Iron.
Key Locking
Per doz....$.. .....

All above small illustrations are ½ size. Sizes are given in width. For same locks with chain add 75 cents net per dozen.

## THE FAMOUS "BLYMER" BELLS.

DESCRIPTION.

The metal from which the "Blymer" bell is cast and from which is derived its peculiar sweetness of tone and surpassing strength, is a composition used only by the manufacturers of these bells. This metal, consisting largely of an extra quality of fine steel is the outcome of long years of incessant experiment, and is absolutely unlike any other metal used in bell founding. They should be judged on their own merits and not be confounded with ordinary iron and various kinds and grades of alloy amalgam and other inferior composition bells. Not only are they unlike all other bells in the metal used, but also in their pattern and proportions. In short, they are distinctively the "Blymer" bells, wholly different in material, etc., from those made by other founders. The Blymer bells are full equal in tone and durability to copper and bell metal for corresponding weight. Our prices therefore should be compared only with those of copper and tin bells.

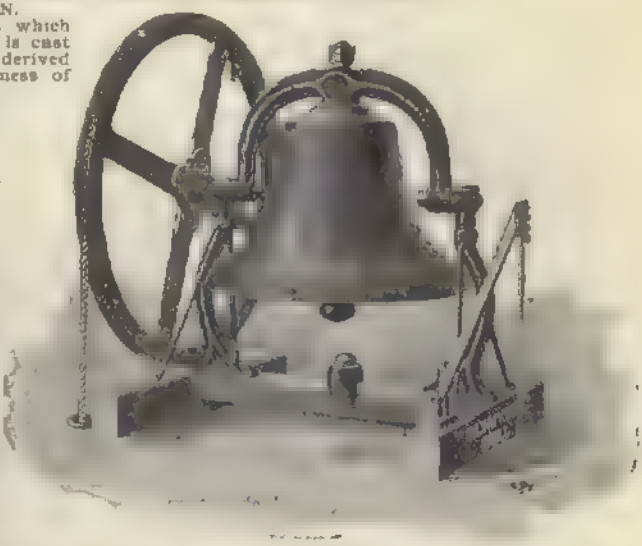
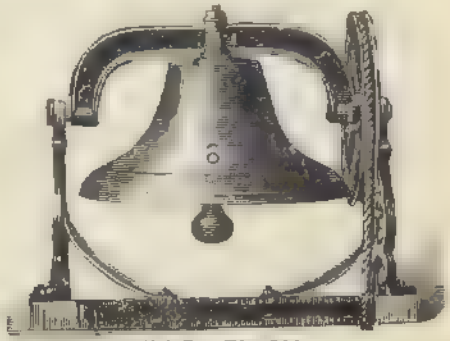


Fig. 309

| | Size Diameter | Weight of Bell | Wt. Bell and Mountings | Size of Wood Frame Outside | Diameter of Wheel | Price List |
|---|---|---|---|---|---|---|
| Church Bells | 32 in | 375 lbs | 550 lbs | 3 ft x 3 ft 4 in | 36 in | $90 00 |
| | 34 in | 450 lbs | 700 lbs | 3 ft 2 in x 3 ft 8 in | 42 in | 105 00 |
| | 36 in | 550 lbs | 800 lbs | 3 ft 6 in x 3 ft 9 in | 44 in | 125 00 |
| | 38 in | 675 lbs | 950 lbs. | 3 ft 8 in x 3 ft 11 in | 48 in | 145 00 |
| | 40 in | 800 lbs. | 1100 lbs. | 3 ft 10 in. x 4 ft. 2 in. | 52 in | 170 00 |
| | 42 in | 900 lbs. | 1200 lbs. | 3 ft 10 in. x 4 ft. 4 in. | 52 in. | 190 00 |
| | 44 in | 1000 lbs. | 1400 lbs | 4 ft 2 in x 4 ft. 6 in. | 62 in. | 220 00 |
| | 46 in | 1100 lbs. | 1500 lbs. | 4 ft 2 in. x 5 ft. 1 in. | 62 in. | 250 00 |
| | 48 in | 1325 lbs. | 1800 lbs. | 4 ft. 8 in x 5 ft. 4 in. | 68 in | 280 00 |
| | 50 in | 1500 lbs. | 2200 lbs | 4 ft. 8 in. x 5 ft. 5 in. | 68 in | 325 00 |
| | 52 in | 1750 lbs | 2500 lbs. | 4 ft. 10 in x 5 ft. 8 in | 72 in | 375 00 |
| | 54 in | 2000 lbs. | 2900 lbs. | 5 ft. 6 in x 6 ft. 1 in | 78 in | 450 00 |

Please note that the list prices are for bell and mountings complete. Church Bells only are furnished with tolling hammers. The weights and diameters given in the above table designate the pattern, actual weights will vary about three per cent.

Fig. 310



## FARM AND SCHOOL BELLS. Fig. 311

| FARM Number | Diameter | Weight | Price Bronzed |
|---|---|---|---|
| 1 | 15½ in | 40 lbs | $ 4.00 |
| 2 | 17 " | 60 " | 6.00 |
| 3 | 19½ " | 75 " | 7.50 |
| 4 | 21½ " | 100 " | 10 00 |

| SCHOOL Number | Diameter | Weight | Price Bronzed |
|---|---|---|---|
| 6 | 23 in. | 175 lbs. | $20 00 |
| 7 | 24 " | 230 " | 25 00 |

Wrought and cast iron hangings. Extra strong. Equal in tone and strength to any bell made

## IRON FRAME RAILROAD TRACK SCALE

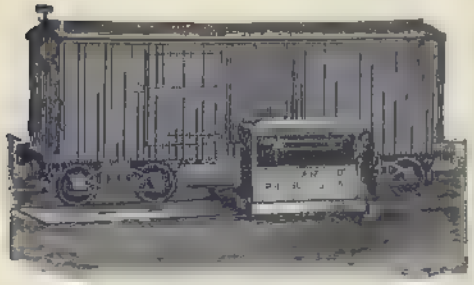


Fig. 1206.

Prices for other modifications will be given upon application. The prices for the above are exclusive of trimmings and foundations, which are furnished at purchaser's expense.

Price List.

| No. | Platform Capacity Ft. | Tons | Price |
|---|---|---|---|
| 4102 | 8 | 20 | $ 375.00 |
| 4146 | 12 | 30 | 475.00 |
| 4176 | 16 | 40 | 550.00 |
| 4208 | 20 | 50 | 650.00 |
| 4234 | 24 | 50 | 850.00 |
| 4274 | 30 | 60 | 1050.00 |
| 4298 | 34 | 60 | 1065.00 |
| 4310 | 36 | 60 | 1075.00 |
| 4314 | 36 | 80 | 1125.00 |
| 4319 | 37 | 60 | 1087.50 |
| 4323 | 37 | 80 | 1137.50 |
| 4320 | 38 | 60 | 1100.00 |
| 4324 | 38 | 80 | 1150.00 |
| 4332 | 40 | 80 | 1175.00 |
| 4346 | 42 | 60 | 1150.00 |
| 4356 | 46 | 80 | 1250.00 |
| 4372 | 50 | 80 | 1437.50 |
| 4393 | 56 | 80 | 1475.00 |
| 4408 | 60 | 60 | 1675.00 |
| 4422 | 64 | 80 | 1675.00 |

## DORMANT WAREHOUSE SCALES.

With Two Iron Pillars.

| No. | Capacity Lbs. | Platform Inches | Price |
|---|---|---|---|
| 1046 | 5,000x½ | 48x48 | $1,000.00 |
| 1048 | 3,500x½ | 42x44 | 1,[illegible] |
| 1050 | 2,500x½ | 46x37 | 1,[illegible] |
| 5054 | 1,500x½ | 42x30 | 1,000.00 |

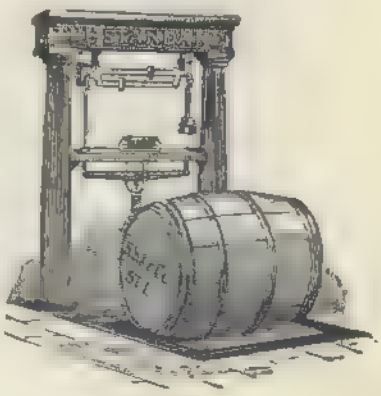


Fig. 1207.

## REED RECORDING ATTACHMENT.

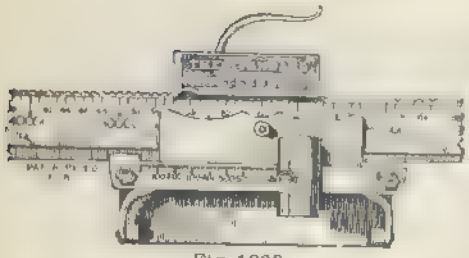


Fig. 1208

The Recording Attachment shown in this illustration is the most satisfactory device yet invented for obtaining a correct record of weights.

Its simplicity of construction, absolute accuracy of record of the weight at one operation, cannot be surpassed. Its movement is not affected by dirt, dust or weather.

The correct weight can be had in less time than by reading the beam, and a record is obtained which can be referred to at any time, and is valuable evidence in case of disputed weights.

The attachment can be applied to any make of Scales.

## WAGON, HAY, COAL AND STOCK SCALES.

**With Improved Loop Bearings. Shallow Pit Pattern.**

"The Standard" Improved Loop Bearing Scales possess advantages in simplicity of construction and manner of supporting the weight from the levers, greatly reducing the number of parts and complications of other modifications.

Fig. 1204. Brass Beams and Sliding Poises.

They embody in their construction the advantages of Suspension Scales, while cost of building is less than regular Pit Scales.

| No | Capacity, Tons | Size of Platform, | Distance from Edge of Platform to Beam Rod, | Price, Single Beam | Price, Double Beam. |
|---|---|---|---|---|---|
| 6000 | 10 | 15ft. x 7ft. | 2 ft. 7 in. | $290 00 | $305.00 |
| 6002 | 8 | 14ft. x 7ft. 2¾ in. | 2 ft. 8¼ in. | 265 00 | 280 00 |
| 6004 | 6 | 15ft. x 7ft. | 2 ft. 7 in | 240 00 | 255 00 |
| 6005 | 6 | 14ft. x 7ft. 2¾ in. | 2 ft. 8¼ in. | 240 00 | 255.00 |
| 6006 | 5 | 15ft. x 7ft. | 2 ft. 7 in. | 205 00 | 215 00 |
| 6112 | 5 | 14ft. x 8ft. | 2 ft. | 200.00 | 210 00 |
| 6114 | 4 | 14ft. x 8ft. | 2 ft. | 170.00 | 180 00 |
| 6008 | 4 | 14ft. x 7ft. 2¾ in. | 2 ft. 8¼ in | 180 00 | 190.00 |
| 6116 | 3 | 14ft. x 8ft. | 2 ft. | 145 00 | 155.00 |

Above prices are exclusive of timber and foundation, which are furnished by the purchaser.

Scales of other sizes and capacities furnished at corresponding prices.

## PORTABLE PLATFORM SCALES.

Price List.

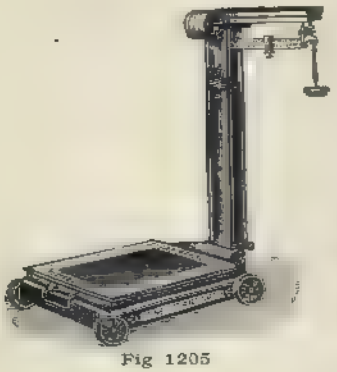


Fig 1205

Brass Beam and Sliding Poise

### With Wheels.

| No | Capacity, Lbs | Platform, Inches | Price. |
|---|---|---|---|
| 1501 | 600x¼ | 23 x 23 | $35.00 |
| 1503 | 1,000x½ | 25 x 25 | 45.00 |
| 1505 | 1,200x½ | 27 x 27 | 58 00 |
| 1507 | 1,500x½ | 29 x 29 | 60 00 |
| 1509 | 2,000x½ | 31 x 31 | 80.00 |

### Without Wheels.

| | | | |
|---|---|---|---|
| 1487 | 600x¼ | 23 x 23 | $32 00 |
| 1489 | 1,000x½ | 25 x 25 | 42.00 |
| 1491 | 1,200x½ | 27 x 27 | 50.00 |
| 1493 | 1,500x½ | 29 x 29 | 56.00 |
| 1495 | 2,000x½ | 31 x 31 | 76.00 |

### With Wheels and Bag Rack.

| | | | |
|---|---|---|---|
| 1529 | 600x¼ | 23 x 23 | $38.50 |
| 1531 | 1,000x½ | 25 x 25 | 49.00 |
| 1533 | 1,200x½ | 27 x 27 | 57.00 |
| 1535 | 1,500x½ | 29 x 29 | 64.50 |
| 1537 | 2,000x½ | 31 x 31 | 85.00 |

Also furnished with **Oblong Platform** and with **Drop Lever**, if so ordered. Prices upon application.

## HANCHETT'S ADJUSTABLE SAW SWAGE.

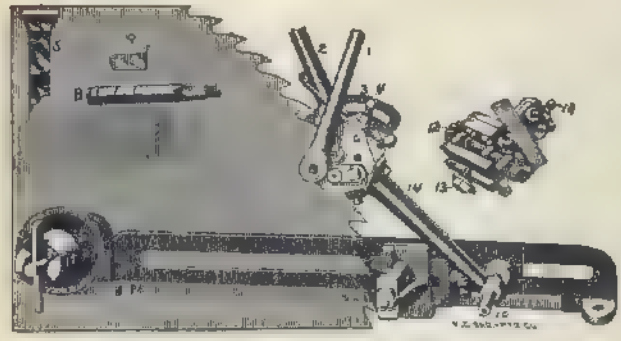


Fig 680

For large and small Circular, Band and Gang Saws.

STYLE A 4.

Above cut represents Swage and Jointer.

This style is made in four sizes, as follows

| No. | For saws | Price |
|---|---|---|
| 1 | 5 to 11 | $42 00 |
| 2 | 11 to 16 | 38 00 |
| 3 | 16 to 19 | 35 00 |
| 4 | 19 to 26 | 35.00 |

Without Jointer for saws 5 to 11 gauge. Price $35.00.

## THE WHITE PATENT HAND SAW SWAGE.

This swage is the only swage made with an Adjustable Anvil and consequently it will fit any shape tooth, and properly swage the underside of teeth on Band, Gang or Circular Saws. It is the only swage made with a peek hole through the block showing the point of tooth and die when swaging. Descriptive circulars on application

Price ..... $30 00

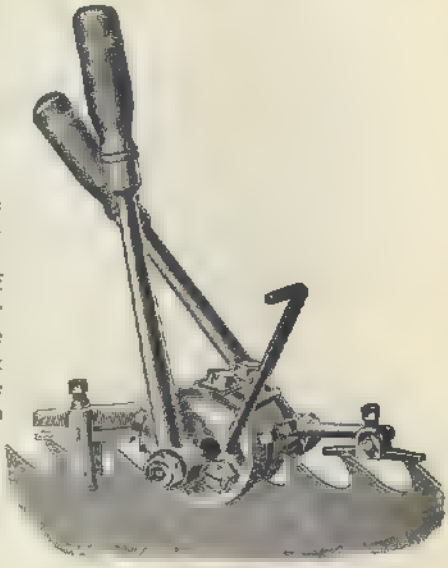
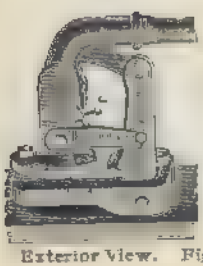


Fig 682.

## KINNEY IMPROVED SWAGE.



Exterior View.

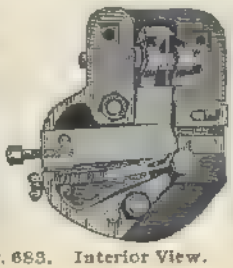


Fig. 683. Interior View.

No. 18. For Large Circular or Gang Saws

The interior view shows the improvements consisting of the adjustable Top Die With Holder.

Always state in orders if for Circular or Gang saws.

Weight 800 lbs. Floor space, 18x18 in. Extreme height, 2 feet.

| | |
|---|---|
| Price for circular saw | $75 00 |
| Price for gang saw | 75 00 |

## THREE-WAY COCK.

Fig 305

Price of Three Way Cock with Slip Joint to allow for expansion, all nickel plated..... $6 00

Fig 305

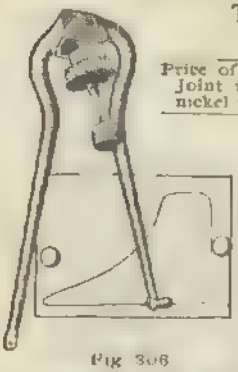


Fig 306

## AMSLER'S POLAR PLANIMETER.

Fig 306

By the means of this instrument, indicator diagrams can be measured quickly and accurately. Price, $15 00.

## NEWMAN'S WATCHMAN'S PORTABLE TIME DETECTOR.

A WATCH AT LAST THAT CANNOT BE TAMPERED WITH.

It watches the watchman, and is to him a constant reminder that his duty cannot be neglected with impunity.

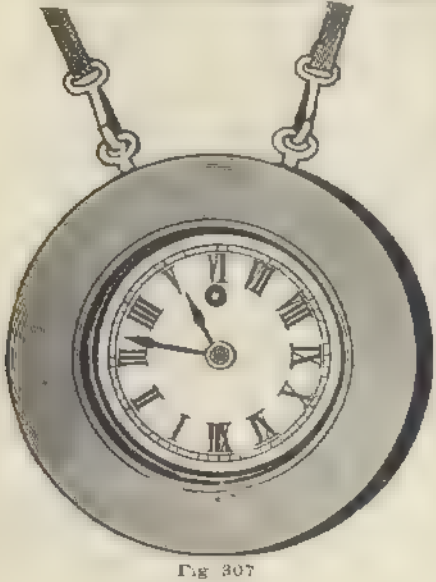


Fig 307

In many institutions a portable watch is the only system of recorder that can be used, such, for instance, as lumber yards, railroad yards, mines, factories that are not enclosed, chemical and packing houses where the brine or chemicals destroy the efficacy of other systems, and for general outdoor watching.

Our watch needs cleaning and oiling about once a year, at a cost of about $1.50 at any watchmaker's. It can be returned the same day, thus no waiting for electricians or specialists.

The following are the principal features of improvement:

1st. To duplicate the key our dies and matrix must be used. Keys cannot be purchased without application by the proper authorities.

2d. The case is made of aluminum, for lightness and to prevent tarnishing or injury from acids or grease.

3d. The dial is arranged for twenty-four hours. This gives a record for the Sunday registering when necessary.

Weight of 9-key watch, about 18 oz.,
Price ..... $ .

Weight of 12-key watch, about 22 oz.,
Price ..... $ .

## GONG BELLS.

**Central Pull Outside Trip Gong. Stronger and more durable than the Lever Gong, yet works on the same principle.**

**Especially adapted for engines, mines and elevators. All bells from 10 inch and above have lignumvitæ wood hammer.**

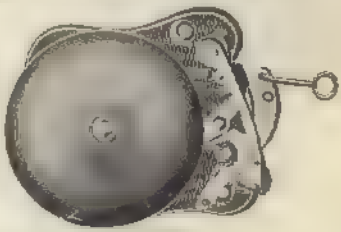


Fig 308

Polished Bell Metal.

| | | | | | |
|---|---|---|---|---|---|
| 4 inch | Each | $3 15 | 8 inch | Each | $6 75 |
| 5 inch | " | 3 85 | 10 inch, lignumvitæ hammer.. | " | 9 00 |
| 6 inch | " | 4 80 | 12 inch, lignumvitæ hammer.. | " | 15 00 |
| 7 inch | " | 5.75 | | | |

## WILLIAMS UNIVERSAL RATCHET.

Price List.

| | | |
|---|---|---|
| No. 6 style F | For flat Drills | $15 00 |
| " 6 " N | For square Shank ¾ x ½ x 1¾ | |
| " 6 " S | For No. 3 Morse Taper | 15 00 |
| " 6 " S | " No. 4 " | 15 00 |
| " 4 " B | For flat Drills. | 10 00 |
| " 4 " B | For square Shank ⅝ x ½ x 1⅝ | |
| " 4 " M | For square Shank Drills ⅝ x ⅝ x 1½ | 10.00 |
| " 4 " K | For No. 2 Morse Taper | 10.00 |
| Extra spindles for No. 6 | | 3.00 |
| " " " No. 4 | | 2 00 |

Fig. 367

No. 6 suitable for Railroad and general work.
No. 4 suitable for Bridge work

Any movement of the handle up, down, sideways or in any direction, drives the drill. No bevel gears or ball joint. Plenty strong enough to drill 2 inch holes. There are five pawls. This reduces the lost motion to 2 inches at the end of the 16 inch handle

## THE RENSHAW RATCHET DRILL.

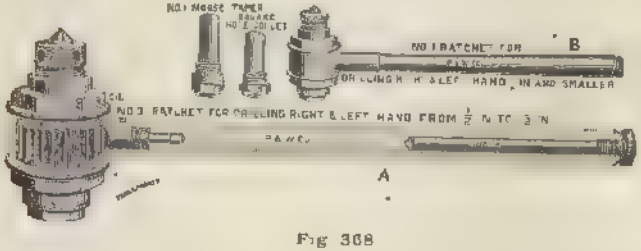



Fig 368

**No. 1** has one collet for drills, with shank $\frac{11}{32}$ inch square at shoulder, and one collet for drills fitting No. 1 Morse's Standard Taper Socket. Weight, 16 ounces.

**No 3** has one collet No 5 for drills, with shank $\frac{11}{16}$ square at shoulder, of ½ to 1½ inches diameter which are the extreme sizes that this ratchet is adapted to carry and collets Nos 1, 2, and 3, for Morse's Standard Taper Shanks Nos 4 and 5 collets are held in the spindle by screw thread Nos 1 and 2 collets are tapered externally to fit No. 3 socket. Weight 8 pounds, 14 ounces.

The No 3 ratchet for use of boiler makers, for whose use it is especially adapted, is provided with an extended feed screw having a knurled shank 3½ inches long, by which the ratchet may be held by hand in starting the drill, and fed by hand also When this extended screw is substituted for the regular one the price is not changed if it is taken as an extra attachment, it is furnished at $3 50 An adjustable friction feed attachment, can be furnished for $4.00.

| | No. 1 | No 3 |
|---|---|---|
| Length of handles over all | 9½ in. | 18 in. |
| Length from top of spindle to bottom of feed collet | 8 in. | 5 in. |
| Length of feed | 1½ in. | 2¾ in. |
| Price | $11.00 | 15 00 |

## BREAST DRILL.

No. 12

Fig. 362
BALL BEARING.

Has cut gears, adjustable cranks, level attachment to show when being held true, Alligator Jaws, holding both round and square shanks. Also an extra pair of jaws for fine drills. The handles are Cocobola and the chuck nickled. Everything about the tool will be found durable and nicely finished.

Price.....per dozen, $30.00

Put up one in a box.

No. 13.

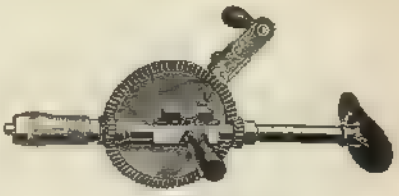


Fig. 363.
BALL BEARING.

This drill is double geared and has a 6-inch drive-wheel giving speed at 4½ to 1. The gears are cut, the handles Cocobola and the stock and chuck nickel plated. Note the level attachment to show when the tool is being held true, also the extension crank.

Price.....per dozen $48.00

Put up one in a box.

## PARKER'S PATENT RATCHET DRILLS.

The Entire Surface is Highly Polished.

Price List.

| | | | |
|---|---|---|---|
| No. 4 | 10 inch Lever | each | $5 75 |
| No 5 | 12 inch Lever | " | 6 00 |
| No. 6 | 15 inch Lever | " | 7.00 |
| No. 8½ | 17 inch Lever | " | 7 50 |
| No 7 | 20 inch Lever | " | 8 00 |
| No. 8 | 10 inch Lever, Boiler Drill | " | 5 50 |
| No. 9 | 12 inch Lever, Boiler Drill | " | 6 00 |

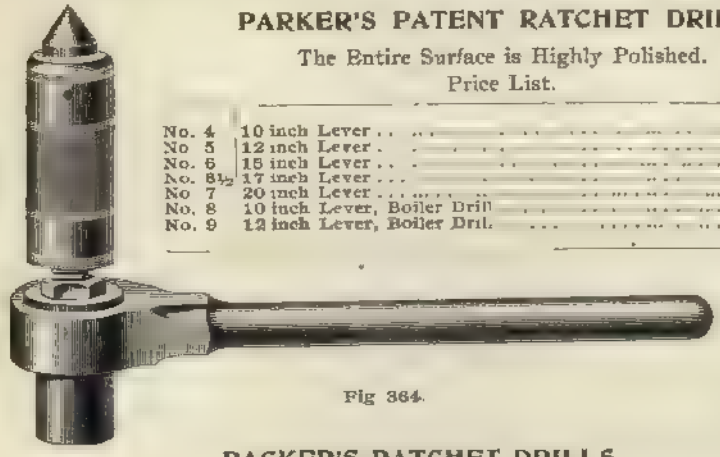


Fig 364.

## PACKER'S RATCHET DRILLS.

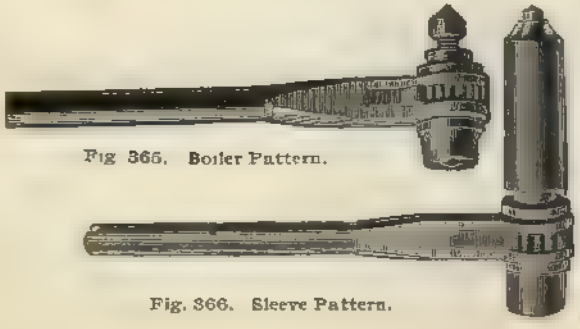


Fig 365. Boiler Pattern.

Fig. 366. Sleeve Pattern.

Price List.

| No. | Length of Handle, Inches. | Price, Sleeve Pattern, Each. | Price, Boiler Pattern, Each. |
|---|---|---|---|
| 1 | 10 | $10 50 | $ 9.00 |
| 2 | 12 | 13.50 | 10.50 |
| 3 | 15 | 16 00 | ..... |
| 4 | 17 | 19 00 | ..... |
| 5 | 20 | 23 00 | ..... |

# HAMMERS.

## BALL, STRAIGHT OR CROSS PEIN HAMMERS.

| Number | | 00 | 0 | 1 | 2 | 3 |
|---|---|---|---|---|---|---|
| Price | Per doz | $12.00 | $12.50 | $13 50 | $14 50 | $15.50 |
| Weight | Each | 12 oz | 1 lb | 1¼ lb | 1½ lb | 1¾ lb |

| Number | | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|
| Price | Per doz. | $16.50 | $17.50 | $19 00 | $20 50 | $22 50 |
| Weight | Each | 2 lb. | 2¼ lb | 2½ lb. | 2¾ lb | 3 lb. |

Fig. 370.

Fig. 371

## RIVETING HAMMERS.

| Number | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Price | Per doz | $5 75 | $6 00 | $6 25 | $6 50 | $7.00 |
| Weight | Each | 7 oz. | 9 oz. | 12 oz | 15 oz. | 1⅛ lb |

## ENGINEERS' HAMMERS.

Solid Cast Steel.

| Number | | 0 | 1 | 2 | 3 |
|---|---|---|---|---|---|
| Price | Per doz | $12.00 | $13.00 | $14 00 | $15 00 |
| Weight | Each | 1 lb. 2 oz. | 1 lb 10 oz. | 2 lb. | 2 lb. 8 oz |

| Number | | 4 | 5 | 6 |
|---|---|---|---|---|
| Price | Per doz | $16.00 | $17.00 | $19.00 |
| Weight | Each | 3 lb. | 3 lb. 8 oz. | 4 lb 8 oz |

Fig 372

## RUBBER MALLETS.

Fig 372½

For use in Furniture and Wood Working Factories Machine and Engine Shops, Etc., Etc.

Price List.

| | | |
|---|---|---|
| No 1. | Weight 1½ lbs., price per doz | $14 00 |
| No. 2. | Weight 2 lbs, price per doz | 18 00 |
| No. 3 | Weight 3 lbs., price per doz | 27 00 |

## COPPER HAMMERS.

Price per lb ..... $

## RAWHIDE-FACED HAMMERS.

| | Each. | Extra Faces, per pair. |
|---|---|---|
| No 1. 1 lb | $ 90 | $ .20 |
| No 2 1¼ lb | 1 15 | 26 |
| No 3 2 lb | 1 40 | 30 |
| No 4 3½ lb | 2 00 | 40 |
| No. 4Bx. 3¼ lb | 2 25 | 50 |
| No 5. 5¼ lb | 2 75 | 60 |

One pair extra faces with each hammer.

## VERONA HAMMERS.

### NAPPING HAMMER NO. 8

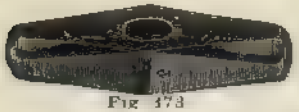


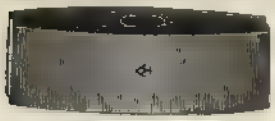
Fig. 373

### HAND DRILLING HAMMER No. 14

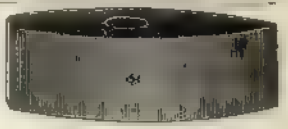
Fig. 374

| | |
|---|---|
| Solid Crucible Steel, 4 lb. and over | $0.16 |
| Solid Crucible Steel, under 4 lb | .20 |

## STONE HAMMERS.



Double Face
Fig. 375



Face and Pein
Fig. 376

| | |
|---|---|
| Solid Crucible Steel, 4 lb and over | $0.19 |
| Solid Crucible Steel, under 4 lb. | .22 |

### STRIKING SLEDGE NO. 15

Double Face

Fig. 377

### STRIKING HAMMER NO. 16

Double Face

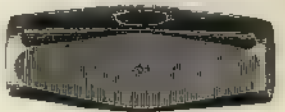


Fig. 378

| | | |
|---|---|---|
| No. 15. | Solid Steel Sledge, 16 to 40 lb | $0.16 |
| No. 16. | Solid Steel Hammer, 4 lb. and over | .16 |
| No. 16 | Solid Steel Hammer, under 4 lb. | .20 |

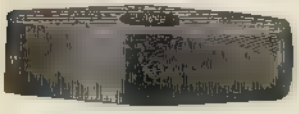


Fig. 379

## STONE SLEDGE.

| | |
|---|---|
| No. 15. Solid Crucible Steel, 6 to 24 lb. per lb | $0.16 |

## BLACKSMITHS' SLEDGES.

| | |
|---|---|
| Solid Crucible Steel, per lb. | $0.16 |

Fig. 380

Old Pattern
Fig. 381

## SPIKE MAULS.

New Pattern
Fig. 382

| | | |
|---|---|---|
| No. 5. | New Pattern, any weight, per lb. | $0.16 |
| No. 6. | Old Pattern, any weight, per lb | .16 |

### COAL MAUL.

Fig. 383

### SHIP MAUL.

Fig. 384

| | |
|---|---|
| Coal Maul, 4 to 10 lb., per lb | $0.16 |
| Ship Maul any weight, per lb | .20 |

## WOOD SAWS.

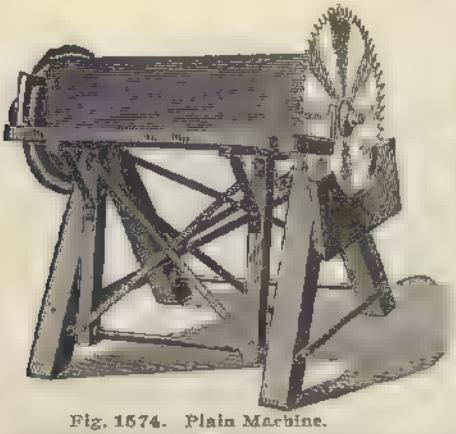


Fig. 1574. Plain Machine.

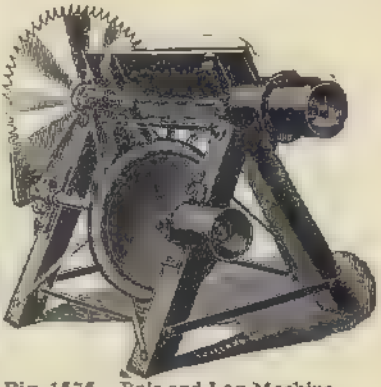


Fig. 1575. Pole and Log Machine.

The Frames are a combination of iron and wood consisting of iron piping with collars on each end and long bolts which extend through the pipes and wood, making them much stiffer and stronger than any mortise and tenon frame

### ROCHESTER.

| | | |
|---|---|---|
| Size A for 20 inch and 22 inch Blade | | $ |
| " B " 24 " " 26 " " | | |
| " E " 28 " " 30 " " | | |
| " G Pole for 20 inch and 22 inch Blade | | |
| " H " " 24 " " 26 " " | | |
| " F " " 28 " " 30 " " | | |

### CLIPPER.

| | |
|---|---|
| Size I for 24 inch and 26 inch Blade | $ |
| " J Pole for 24 inch and 26 inch Blade | |

The Clipper Saws are made a little lighter than the Rochester and are not so highly finished. They are also somewhat cheaper.

Write for special catalogue giving full details.

## CHAMPION SELF-FEED DRAG SAWS.

Fig 1576.
View of Champion Self-feed Drag Saw No. 2.

The stroke of the saw can be adjusted to either 16, 20 or 24 inches.

Twenty feet of Log Carriage, Trucks, Rollers, Dogs, etc., are always furnished as extras.

Can be geared to fit any style of Sweep Horse Power.

These Machines are made in two sizes, Nos. 1 and 2 Self-feed only.

| | Price | Complete with | Price | Speed per minute | Weight |
|---|---|---|---|---|---|
| No 1 | $ | 4-Horse Power | $ | 140 to 160 strokes | 1100 lbs. |
| No 2 | | 4-Horse Power | | 150 to 175 strokes | 1250 lbs. |

No. 1 Machine is recommended for all ordinary Farm or Timber work.

## WOOD SPLITTERS.

| | |
|---|---|
| Size **A**, single, 806 lb. bal. pulley, 17 in. cut, screw table. | $190 00 |
| Size **B**, double, 300 lb. bal. pulley, 17 in. cut, screw table | 250 00 |
| Size **C**, single, 500 lb bal. pulley, 17 in. cut screw table, heavy star pattern. | 325 00 |
| Size **D**, double, 500 lb. bal. pulley, 17 in. cut, screw table, heavy star pattern | 300,00 |
| Size **E**, double, 500 lb. bal. pulley, 24 in cut, screw table, heavy star pattern | 325 00 |
| Size **F**, double, 750 lb. bal. pulley, 24 in cut sliding table, extra heavy FF pattern | 350 00 |
| Size **FF**, double, 750 lb. bal. pulley, 50 in cut step table, extra heavy FF pattern. | 375 00 |

Write for Discounts.

Fig. 1577.

## NO. 2 AND NO. 2½ SAW MILLS.

Single or Double.

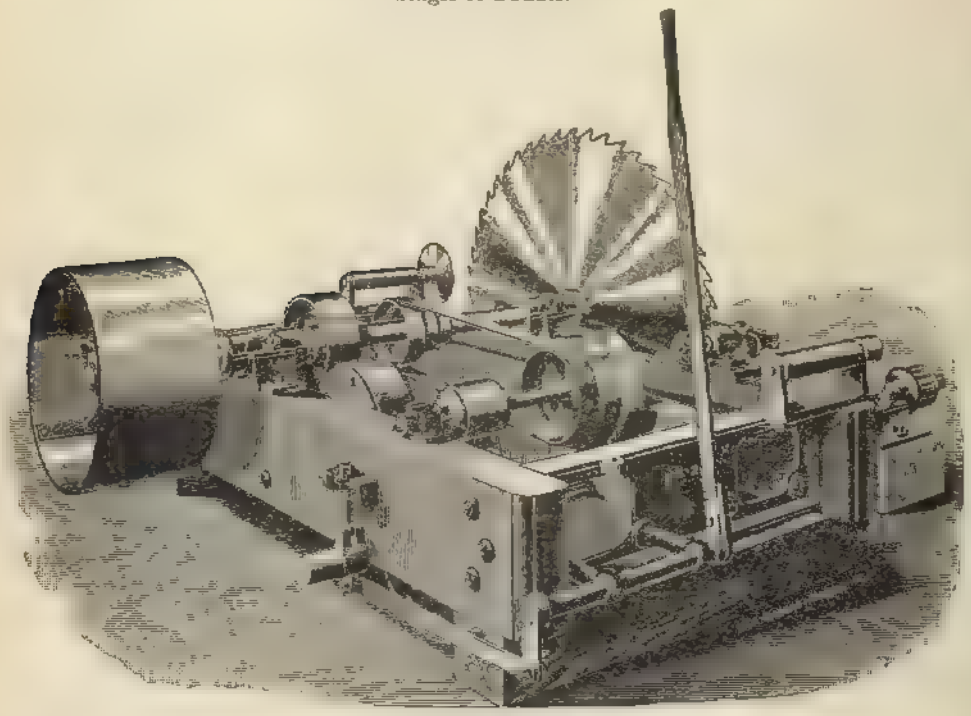


Fig 1578

### Description and Prices.

The No 2 and 2½ Circular Saw Mills are the popular sizes and are used the most. They are suited to engines of 15 to 40 horse power, and will cut 5,000 to 20,000 feet per day The two sizes are identical, except that No 2½ Mill has longer and wider Husk Frame also Rag Shaft and Carriage Axles are ¼ inch larger in diameter than No. 2 Mill.

No. 2½ Single Circular Saw Mill, complete with Feed Works Carriage to be 24 feet long, and Rack Stick 30 feet long built in two equal sections and resting on six $1^{15}/_{16}$ Steel Axles fitted with Groove and Flat wheels, and running in Self-Oiling Babbitted Boxes 60 feet each of Wrought Iron Tee and Flat Track, drilled, and screws for same.

Two No 2½ Steel Beam Rack and Pinion Head Blocks, opening 44 inches, with 24 feet of $1^{15}/_{16}$-inch Set Shaft, independent single acting Set Works and two Acme Dogs.

Mandrel and monkey wrenches, oil can saw swage, feed belt, two cant hooks, and main belt binder pulley set in wooden frame. Price, $275 00

Same Mill as above, except to have 8-inch diameter extra heavy Genuine Chilled Iron Groove and Flange Wheels fitted on axles in place of regular wheels, also 60 feet of 20 lb track, half of which is planed to fit groove wheels, in place of lighter track. List price, $317.00.

The above prices are for No 2½ Mills For No. 2 Mill deduct $25.00 from list price.

If No. 1 Improved Friction and Belt Feed having 8 inch face iron and paper frictions and 8-inch wide feed belt are wanted in place of cone feed, add $37 50.

When Manila Rope Feed is wanted in place of Rack and Pinion, add $40 00.

Top Rig, complete with drive pulley for lower mandrel, drive belt and top saw guide; for either No. 2 or No. 2½ Mill, $125.00.

## PRIBNOW'S PATENT SWAGE SHAPER.

Fig 688

Gives uniform shape to the points of saw teeth on band or gang saws.

Price..... $25.00

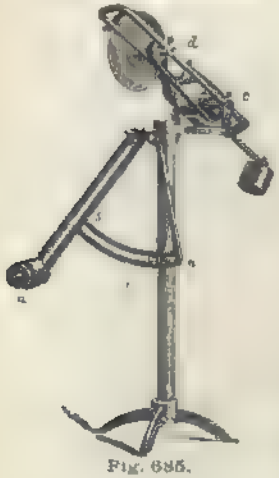


Fig. 685.

Fig 686.

## EMERY SAW GUMMER.

The counter-shaft on gummer has tight and loose pulleys, 4 inches in diameter, with 2¼ inch face, which should be driven about 950 revolutions per minute. This machine will accommodate any diameter of circular saw in use.

An adjustable stop is provided for regulating the depth of cut.

Price, with wheel..... $50.00.

## DOUBLE-GEARED SAW GUMMER.

For Saws 40 Inches and Larger.

Including Cutter Holder and three cutters, of any of the following sizes 1 inch, 1⅛ inches, 1¼ inches, 1⅜ inches and 1½ inches. Specify which are wanted in ordering.

One inch cutter is the smallest size that can be used on this gummer.

Price, each.....$20.00

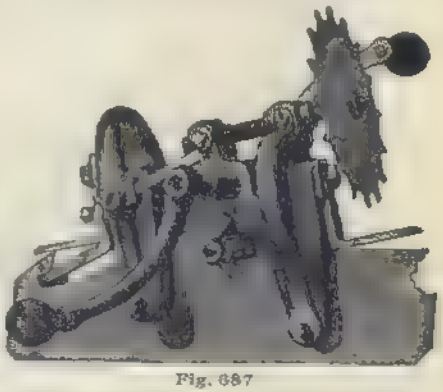


Fig. 687

## MISCELLANEOUS SAW TOOLS.

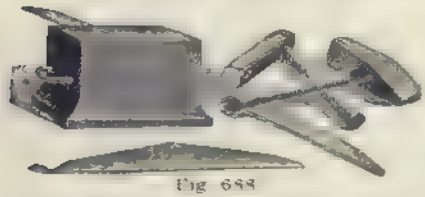


Fig 688

### SAW MAKERS' HAMMERS.

| | Price Each |
|---|---|
| 2½ to 3 lbs | $1 60 |
| 3½ to 4 lbs | 2 00 |
| 4½ to 6 lbs | 3 20 |

### SAW MAKERS' STRAIGHT EDGES.

| Inches. | 12 | 18 | 24 | 30 | 36 | 40 |
|---|---|---|---|---|---|---|
| Each | $0 85 | 1.25 | 1 75 | 2 20 | 2.60 | 3.00 |
| Inches. | 44 | 48 | 52 | 64 | 58 | 62 |
| Each | $3 50 | 4.00 | 4 65 | 5 00 | 5 60 | 6.50 |

Special sizes, to order, special prices.

### SAW MAKERS' ANVILS.

| | Price, Each |
|---|---|
| Face, 3½ x 8 in. Height, 6 in. Weight, 70 lbs. | $15 50 |
| Face, 5½ x 8 in. Height [illegible] in. Weight 100 lbs. | 22 00 |
| Face, 6 x 10 in. Height 8½ in. Weight 150 lbs. | 33 00 |

## FIRE EXTINGUISHERS.

Fig. 821
Tubular

Fig. 822

### TUBULAR EXTINGUISHER.

This is a glass tube about 18 in. long and 2½ in. in diameter. It is designed for use in railway passenger coaches, school rooms, churches, dwellings, etc

Price, per dozen.....$ 9.00
Price decorated as per cut ... .. 11.00

Fig. 823

### HAND GRENADES.

| | | |
|---|---|---|
| Quarts, (Cases of ½ dozen and 1 dozen.) | Per dozen | $9.00 |
| Pints, | " " | 7.00 |
| Racks for pints and quarts | Each | 1.25 |

### HARDEN EXTINGUISHERS.

The extinguishers are finely made of some polished copper and thoroughly tested and guaranteed.

| | | |
|---|---|---|
| Three Gallon Extinguisher | Each | $12.00 |
| Five Gallon Extinguisher | Each | 15.00 |

## WAREHOUSE HOSE CARTS.

Iron Frames and Iron Wheels.

| No. | Size Wheels | Capacity Rubber Lined Hose. | Price |
|---|---|---|---|
| 1 | 58 | 500 ft. 2½ | $ |
| 2 | 48 | 300 " 2½ | |
| 3 | 42 | 150 " 2½ / 200 " 2 | |
| 4 | 36 | 100 " 1½ | ..... |

## SPECIAL WAREHOUSE AND YARD CART.

Wood Wheels.

No 0, 56 inch Wheels, Brass Hub Bands, Rye Attachment to frame and end of pole for drag rope
Price each ..... $...

No. 00 58 inch Wheels, Malleable Iron Hub Bands
Price each . . . . $ .

No 00 1 50 inch Wheels, Malleable Iron Hub Bands
Price each . . . $..

These carts have patent Barrel wheels, end hose roller, pipe holder and are painted English Vermilion and striped.

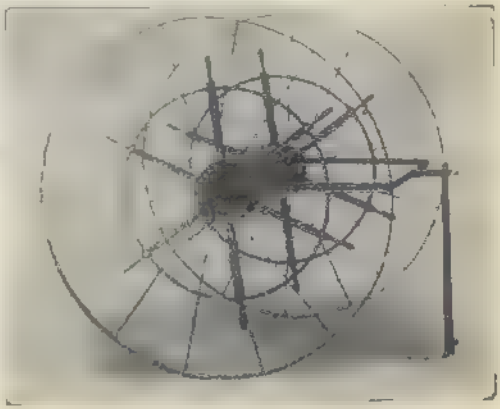


Fig. 824.

## GUIBERT SWINGING HOSE RACK.

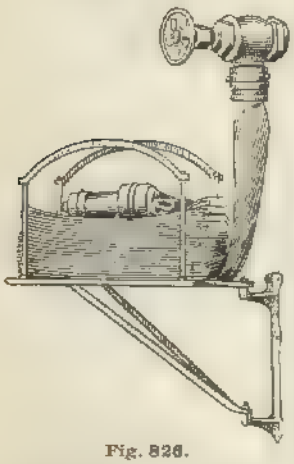


Fig. 826.
Showing rack attached to wall.

Suitable for Hose.

| Feet Linen | Price |
|---|---|
| 50 | $5 40 |
| 100 | 6.40 |
| 150 | 7 40 |
| 200 | 8 40 |
| **Rubber Lined** | |
| 50 | $7.40 |
| 100 | 8.40 |

Furnished for attachment to wall or pipe as may be desired.

In ordering racks or reels with pipe clamps always state internal diameter or external circumference of pipe to which racks are to be attached.

## A B C SWINGING HOSE RACK.

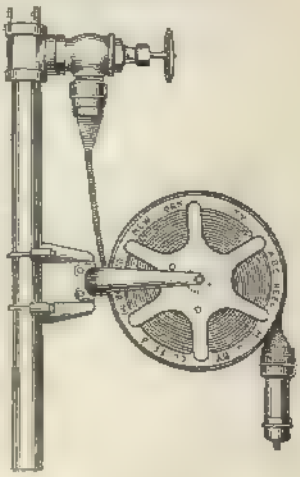


Fig. 827
Showing reel attached to pipe.

## RYERSON HOSE REEL.

STATIONARY.

Price List.

| No | Swinging Capacity Size, In | Hose Linen Feet | H'se Rubber Lin'd Feet. | Stationary Capacity No | Hose, Linen, Feet | Price |
|---|---|---|---|---|---|---|
| 1 | 1½ | 175 | 50 | 7 | 50 | $6 00 |
| 2 | 2 | 150 | 50 | 8 | 50 | 6 50 |
| 3 | 2½ | 150 | 50 | 9 | 50 | 7.00 |
| 4 | 1½ | 250 | 100 | 10 | 100 | 7 50 |
| 5 | 2 | 250 | 100 | 11 | 100 | 8 00 |
| 6 | 2½ | 275 | 100 | 12 | 100 | 8 50 |

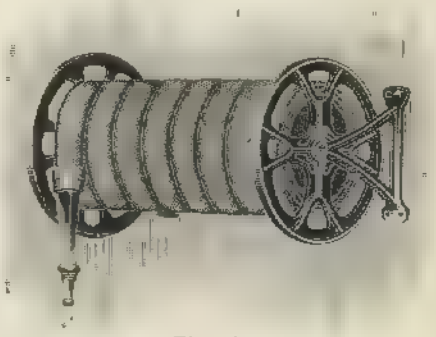


Fig 828

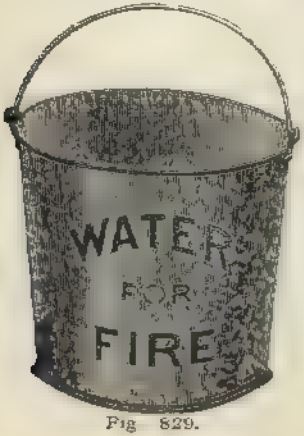



Fig 829.

## GALVANIZED FIRE BUCKETS.

Flat or Round Bottom.

| | Flat | Round |
|---|---|---|
| 10 quart, per doz | $4.50 | $6.75 |
| 12 " " | 5.00 | 7 25 |
| 14 " " | 5.50 | 7.50 |

The round bottom is intended to sit in a rack, or to be hung on a hook, to be used in case of fire only. It will not stand alone and cannot be used by the workmen for any other purpose.

## TRACK BARROWS AND WHEELS.

**Track Barrow, Wood Frame and Tray.**—Full size, well bolted in front and back. Handles and legs of best hard wood. Legs well braced and bolted to handles. Price per Doz $50.00

**Track Barrow, Wood Frame, Steel Tray, Standard gauge of steel tray, No 16** Size at top, 28 in long, 21 in. wide
Price per Doz..... .....$60.00

Tubular Steel American Barrow. Price per Doz. $88 00

Wheels are of best design, material and workmanship, and of great durability. Diameter, 17½ inches, face of tire, 5 inches, 8 spokes, hub, 6 inches long, weight, 16 pounds. Fits any rail up to 2¾ inches on tread. Tire of rolled steel.
Price of each wheel..... $3 00

Fig 1075

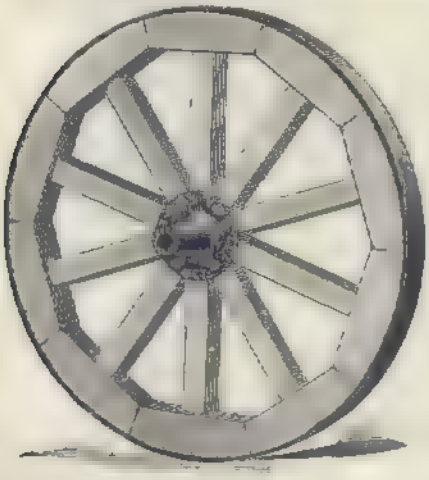


Fig. 1076

## JACOBS' PATENT WOOD WHEEL.

The spokes are keyed from the center after the tire is shrunk on. This wheel will not shrink or give in any weather or climate, and the tire cannot become loosened. An oil hole is drilled into the hollow washer of the hub, and the oil distributes itself along the bearings while the wheel is in motion

### List of Sizes

| Kind No. | Diam Inches | Tire In hes | Length of Hub Inches | Axle Inches |
|---|---|---|---|---|
| 2 | 17 | 1¼ x [illegible] | 6 | [illegible] |
| 3 | 19 | 1[illegible] x [illegible] | 6 | [illegible] |
| 4 | 21 | 1 [illegible] x [illegible] | 7½ | [illegible] |
| 6 | 17 | 1 [illegible] x [illegible] | 7¼ | [illegible] |
| 7 | 19 | 1 [illegible] x [illegible] | 7¼ | [illegible] |

No. 2 used on Garden Barrows. No. 3 used on No. 3 Garden Barrow. No. 4 used on Stave, Nos. 4 and 5 Garden Barrows No. 6 used on Straight and Bent Handle Stone Barrows No 7 used on Open and Tight Bottom Brick Barrows

## LEWIS PATENT STEEL SPOKE WHEEL.

| Kind No. | Diam. Inches | Tire Inches | Length Hub In hes | Axle Inches |
|---|---|---|---|---|
| 13 | 16½ | 1¼ x ¼ | 6 | [illegible] |
| 13-X | 16½ | 1⅝ x ⅝ | 6 | [illegible] |
| 14 | 16½ | 1½ x ⅝ | 6 | [illegible] |
| 15 | 16½ | 1¾ x ⅝ | 7 | [illegible] |
| 15-X | 19 | 1¾ x ⅝ | 7 | [illegible] |

No. 13 used on "Scioto" Barrows, and only when specially ordered

No. 13-X used on Mortar, Nos. 2 and 3 Garden, and Nos. 1, 2 and 3 Steel Tray Barrows

No. 14 used on Nos. 4, 4½ and 6 Tubular Barrows.

No. 15 used on Straight and Bent Handle and Steel Bottom Stone, and Nos. 6, 7, 8, 9, 10 and 12 Tubular.

No. 15-X used on Stave, Brick, and Nos 4 and 5 Garden Barrows

Fig 1077.

## CONDUCTORS' PUNCHES.

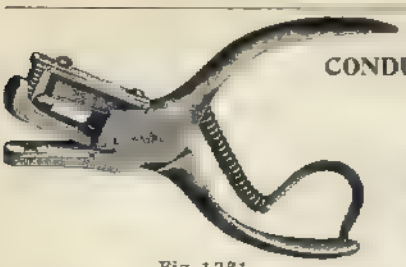


Fig 1231.

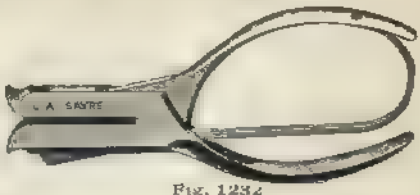


Fig. 1232.

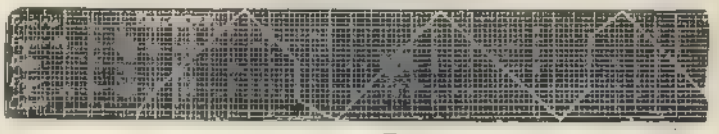
Fig. 1231.

| | | Per Doz |
|---|---|---|
| No. 440. | Length of Jaw, ¾ in., (L) or Assorted Dies, Nickel Plated | $42 00 |
| No. 441 | " " ⅞ in., B C. | 60 00 |
| No. 442. | " " ⅞ in., 2d. | 60 00 |
| No 443. | " " ⅞ in., ½ | 72.00 |

Fig. 1232.

| | | Per Doz. |
|---|---|---|
| No. 42. | Length of Jaw, 1⅛ in., Assorted Dies, Nickel Plated | $24.00 |
| No. 43. | " " 1⅛ in., " " " " | 28.00 |
| No. 431. | " " 2 in., " " " " | 72 00 |
| No. 420. | " " ⅞ in. Dies Limited, " " | 15 00 |
| No. 421. | " " 1¼ in., " " " " | 18 00 |

## RAILWAY SPEED RECORDER.



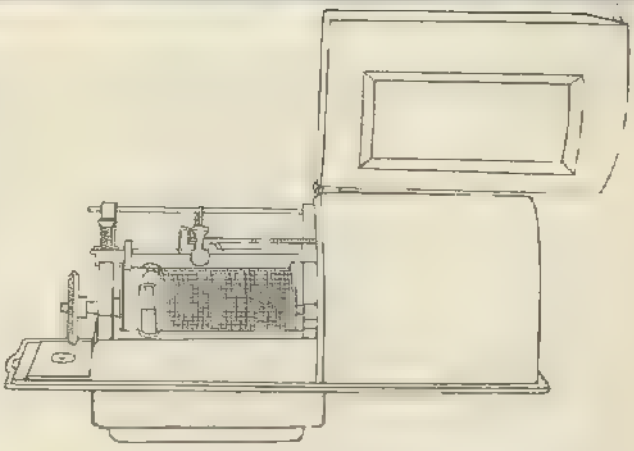


Fig. 1233.

It consists of a worm attached to an axle of the car, which engages a fifty-toothed wheel, connected with another worm, which in turn engages a hundred-toothed wheel, connected by a half-inch rod running up into the car, with a small twenty-four-toothed pinion, that also engages a forty-eight-toothed beveled wheel attached to a cylinder, over which the paper is placed that the record is made upon. This secures a movement of the paper corresponding to the movement of the car, and causes the paper to move about seven-sixteenths of an inch while a car-wheel, thirty three inches in diameter, is moving one mile.

The part which records the time consists of an extra heavy marine clock movement, connected by a rack and gear, with a self adjusting pencil holder, which, with the aid of said movement is kept constantly moving forward and backward lengthwise of the above-mentioned cylinder, but across the paper, the gear being so arranged as to reverse the movement of the pencil every thirty minutes, the distance, in time, across the paper.

Observe that with the two separate motions, one derived from the motion of the car wheels and the other from the clock, an accurate record of the movements of the car is made.

Price.....$.....

## BLOUNT DOOR CHECK AND SPRING.

This Check and Spring is especially constructed for use on passenger cars, and is unlike any other on the market. When the door is nearly closed the checking power is released, making sure to close the door against any draft, and counteracting any resistance caused by going around curves, the latch springs and weather strips

Each..... $5.00

Fig 1227

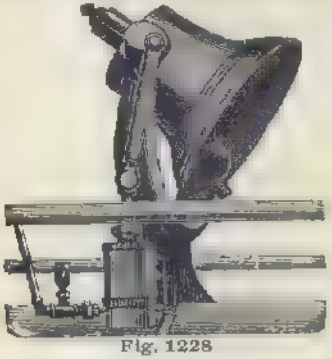


Fig. 1228

## COOKE'S AUTOMATIC BELL RINGER.

Works by either steam or air taken from boiler or air brake.

Entirely obviates the use of the bell rope.

It is simple in construction, has but few parts, is positive in its action, can easily be adjusted, is compact and symmetrical in design, can readily be applied to any engine at a very little cost.

PLEASE NOTE. This is the only Ringer in the market that the steam or air used forces the valve onto the seat, thereby insuring a tight valve at all times Price, $ .....

## SOUTHWORTH HYDROSTATIC PRESS.

(Patent applied for)

Size of Platten, 18 x 22 inches

Price upon application.

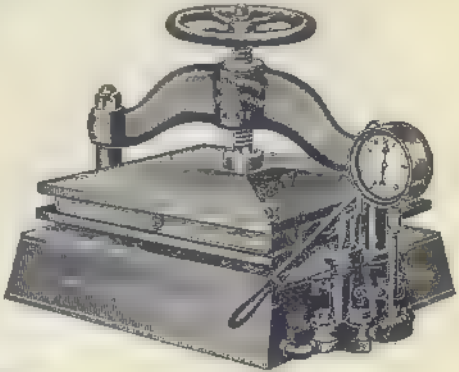


Fig 1229.

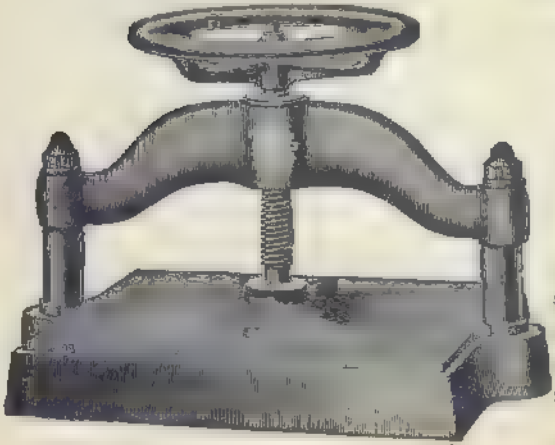


Fig. 1230. The plate accurately planed.

## LETTER PRESSES.

Style U—With Wheel or Ball Lever.

Finished in Plain Black.

| | Price Plain Black | Price Black and Bronze |
|---|---|---|
| Size of follower 16x20 in | $18 00 | $19 50 |
| Size of follower, 16x20 in . | 20 00 | 21 50 |
| Size of follower 18x22 in . | 23 00 | 25 00 |
| Size of follower, 20x30 in | 60 00 | 65 00 |

## FARRINGTON'S MACHINE.

**For Raising and Revolving the Driving Wheels of Locomotive Engines, to Adjust Eccentrics and Valves:**

This machine is portable and can be used in the Engine House, Repair Shop, or wherever the engine may be; and it requires only one man to handle any part of it, or to raise and revolve the driving wheels of the heaviest locomotive.

Price . . $. . .

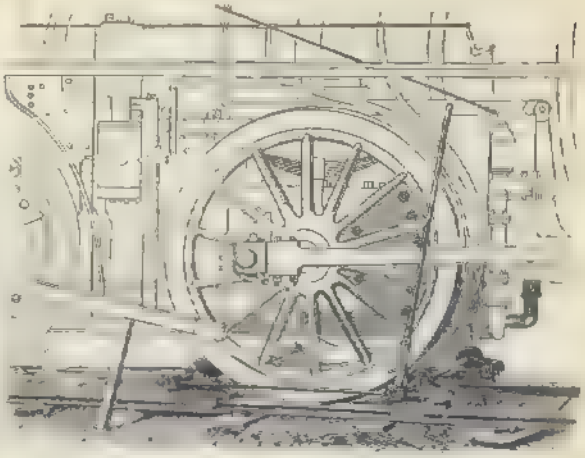


Fig. 1146

Fig. 1147. "The Buckeye Light" Standard Pattern).

## THE BUCKEYE LIGHT.

Sizes and Prices of the Buckeye Light.

| Size, No | Flame Candle Power. | Oil Consumed per Hour, Gal. | Weight Net, Lbs. | Size Tank. | Price. | Extra Burner. |
|---|---|---|---|---|---|---|
| 2 | 1000 to 1200 | ¾ | 110 | 16x22 | $75.00 | $ 9.00 |
| 3 | 2000 to 2500 | 1¼ | 135 | 18x27 | 100 00 | 12 50 |
| 5 | 4000 | 1¾ | 140 | 18x27 | 110.00 | 20.00 |
| Jumbo | 6000 | 2 | 220 | 24x32 | 175.00 | 25 00 |

Quality Of Oil To Use.—The burners are adjusted to burn only regular headlight or kerosene oil, 120° test, such as is used in common house lamps.

Be sure to inform us what class of oil you will use, if any other than 120° headlight.

Fig. 1149

## ACME SAFETY TORPEDO.

Extra loud report. Absolutely waterproof. Perfectly reliable. Equalled by none. Lead and steel clip.

Price, per gross . . . . . $ . .

## WEDGE SHAPED TORPEDOES.

| | Price per Gross |
|---|---|
| W. S. 8 inch, heavy lead | $ |
| W. S. 6 inch, heavy lead | |
| W. S. 6 inch, light lead | |
| W. S. 8 inch, tin strap | |

Fig. 1150

## SIGNAL FUSEES.

Standard Sizes of Fusees.

| | |
|---|---|
| 10 Minute, Iron Plug, per gross $ | 5 Minute, Iron Plug per gross $ |
| 10 Minute, Wood Plug per gross | 5 Minute Wood Plug, per gross, |

## PICKS.

Fig. 1151

### COMMON PICKS.

Steel Points.

| | |
|---|---|
| Adze Eye 6 to 7 lbs., per doz | $13 50 |
| Adze Eye, 5 to 6 lbs., per doz | 12 50 |

### RAILROAD CLAY PICKS.

Solid Steel.

| | |
|---|---|
| Verona No 7 7 to 8 lbs., per doz | $10 00 |
| Verona No 17 Diamond Pointed per doz | 10 00 |

### TAMPING PICKS.

Solid Steel. Solid Eyes.

| | |
|---|---|
| Verona No. 2 T. Tamper, 7 and 7½ lbs., per doz | $12 00 |
| Verona No 3. T. Tamper, 7 and 7½ lbs., per doz | 12 00 |

### LOCOMOTIVE COAL PICKS.

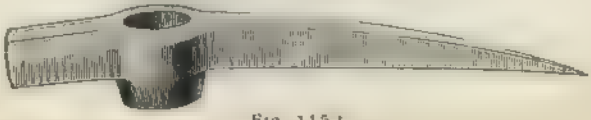


Fig 1152

Verona No. 26 Solid Steel, per lb $0 17

Made any weight

## HEADLIGHT BURNERS.

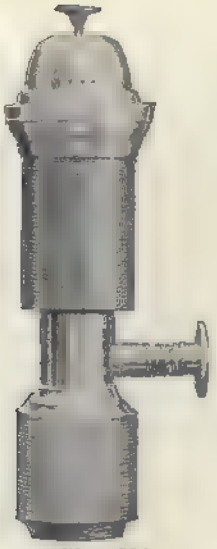


Fig. 1264.

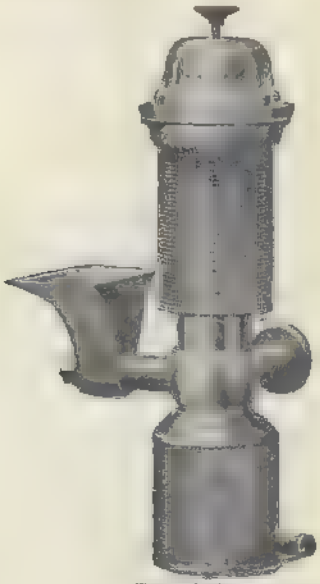


Fig. 1265

Williams Headlight Burners.

Price, per doz ..... $.....

### SOLID HOOPS.

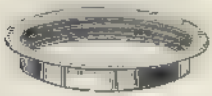


Fig. 1266.

### OIRER SCREWS AND HOOPS.

Fig. 1267.

| | | | | Hoops | Screws |
|---|---|---|---|---|---|
| No 1. Kerosene Size, per 1,000. | $ 7.50 | No. 0. Per 1,000 | | $ 7 00 | $ 9.00 |
| No. 1. Common Size, per 1 000 | 9 00 | No 1. Per 1,000 | | 8 00 | 10.00 |
| No. 1. Extra size, per 1,000 | 12 00 | No. 2. Per 1,000 | | 10 00 | 12 00 |
| No 2. Kerosene size, per 1,000 | 15.00 | No 3. Per 1,000 | | 12 00 | 14.00 |

## WICKS.

List No. 1.

| | |
|---|---|
| No 0, or B, ⅝ inch wide, per gross | $0 60 |
| No 1, or A, ⅝ inch wide per gross | 75 |
| No 2, or B, 1 inch wide, per gross | 1 10 |
| No. 3, or D, 1⅛ inch wide, per gross | 1 75 |
| Brilliant, Argand and Crystal Light | 2 00 |
| No 3, Mochring, 2¾ inch wide, per gross | 3.00 |
| D Dual, 10 inches long | 3 00 |
| Duplex and Oxford, 10 inches long | 3 00 |

List No. 2.

| | |
|---|---|
| Cir. Mochring, 6⅛ in., per gross | $1 50 |
| D. Sun Duplex, 8 in , per gross | 1 00 |
| P. & A. Mfg. Co. No. 1 R'd. Banner, 6 in., per gross | 1 25 |
| P & A Mfg Co No 2 R'd. Banner, 6⅛ in , per gross | 2 00 |
| Rochester No. 2, New, 8 in., per gross | 2 00 |
| Rochester No. 3, New. 8 in., per gross | 6 50 |

Fig. 1268

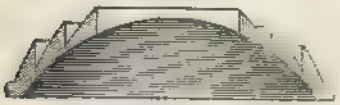


Fig. 1269.

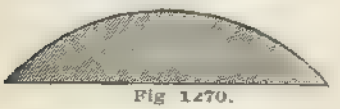


Fig. 1270.

## CORNING LENSES

**Colors.**

White, Ruby, Green and Blue.

**Diameters.**

3 in., 3¾ in., 3⅞ in., 4 in., 4⅛ in., 4 3/16 in., 4¼ in., 4½ in., 5 in., 5⅛ in., 6 in., 6⅛ in., 7 in., 7½ in., 8 in., 8⅛ in., 9 in., 10 in. and 12 in.

**Kinds.**

Smooth Face Semaphore.
Outside Convex and Corrugated and Inside Concave.
Bull's Eye.

Prices upon application.

## GLASSES FOR CLASSIFICATION LAMPS.

| | |
|---|---|
| 3⅞ x 3⅞ Square, Green | $ .... |
| 3⅞ x 3⅞ Square, Ruby | .... |
| 3⅞ Round Green | .... |
| 3⅞ Round, Ruby | .... |

## GLOBES AND CHIMNEYS.

Fig. 1271, No. 39.

Fig. 1272. Conductor's

Fig. 1275, Headlight Chimney.

Fig. 1273 No 0 Tubular

Fig. 1274. Conductor's Half Green, Ruby or Blue

## HEADLIGHT CHIMNEYS.

Headlight Chimney, any size or style per doz.. ... $ ....

In ordering H. L. Chimneys always give outside diameter at bottom

## CORNING RAILROAD LANTERN GLOBES.

| | | | |
|---|---|---|---|
| No. 39 White, per doz | $ . | Half Green, Each | $1 75 |
| No. 39 Red, Per doz | | Half Ruby, Each | 2 25 |
| No 39 Green, per doz | | No 4 Cab Lamp, per doz | 6 00 |
| No. 39 Blue, per doz | | No. 5 Cab Lamp, per doz | 5 00 |
| Conductors' Hand Made, Per doz | 6 00 | | |

## TUBULAR LANTERN GLOBES.

| | |
|---|---|
| No. 0 | $ .. |
| No 1. | .. |

Discount

## SWITCH STANDS.

### RAMAPO.

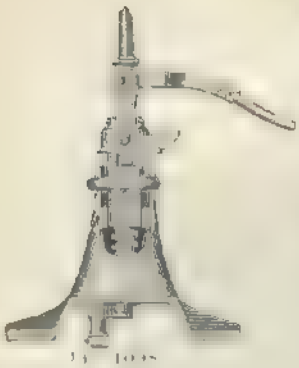


Fig. 1098. Shows parts in position when thrown by hand

Fig. 1099. Shows Ramapo Safety Switch Stand as it operates when thrown by the wheels trailing through the switch.

Price..... $

Fig. 1099

### STANDARD.

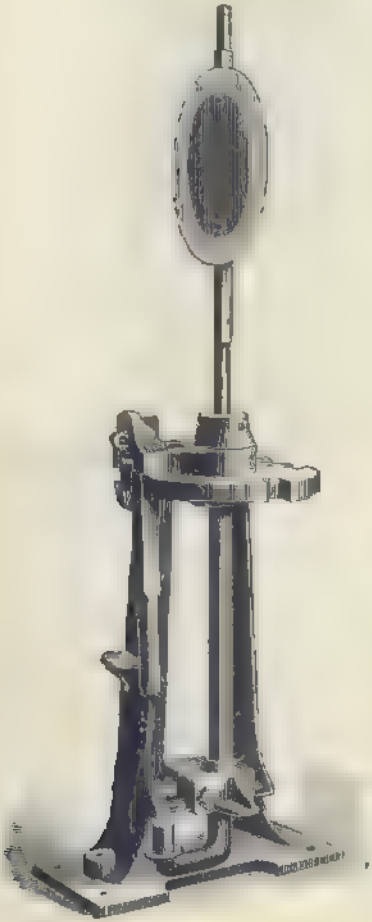


Fig. 1100. No. 10.

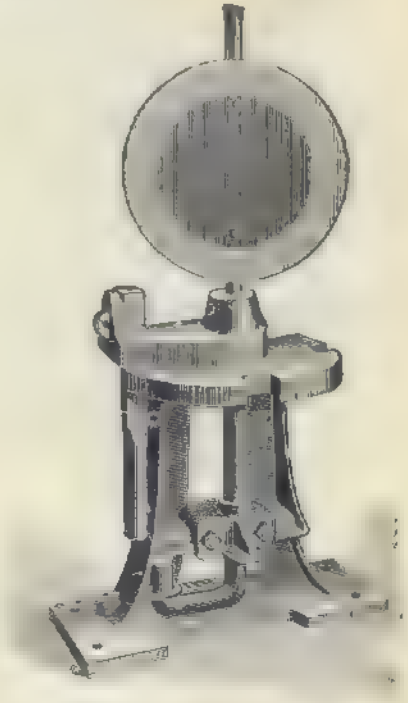


Fig. 1101. No. 11

Fig. 1100. Switch Stand No. 10, Buda Standard, Main Line Pattern.

Price, No. 10..... $..... . .

Fig. 1101. Switch Stand No. 11, Buda Standard Pony Pattern.

Price, No. 11 . . . . $ .

## SWITCH STANDS.

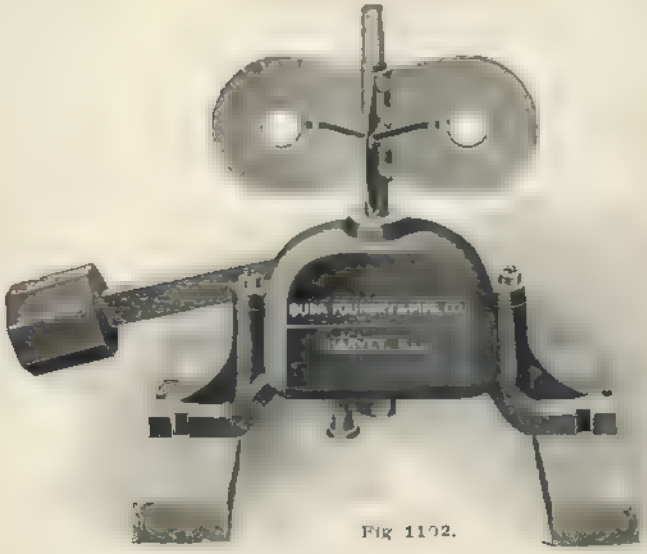


Fig. 1102.

Ground Switch Stand, No. 7.

Switch Stand No. 7. $
Switch Stand No. 7, with Locking Device

Fig. 1103.

Locking Device, No. 7.

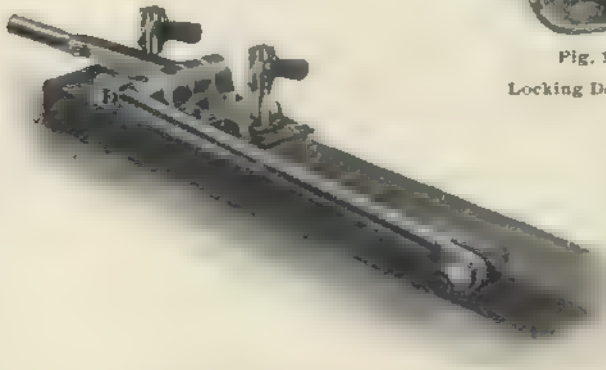


Fig. 1104. Ground Throw Stand, No. 2.

Wrought Iron, with Locking Attachments. Price, $..... . .

## IMPROVED ROLLER RAIL BENDER AND STRAIGHTENER.

Price List.

| | | |
|---|---|---|
| No. 1. | For rail 20 to 40 lbs..... | $105.00 |
| No. 2. | For rail 41 to 60 lbs..... | 115.00 |
| No. 3. | For rail 61 to 70 lbs..... | 140.00 |
| No 4. | For rail 71 to 80 lbs..... | 180 00 |
| No. 5. | For rail 81 to 90 lbs..... | 250.00 |
| No 6. | For rail 91 to 100 lbs ..... | 400.00 |

ALWAYS KEEP ALL BEARINGS WELL OILED

Fig 1123

## RAIL BENDER OR "JIM CROW."

| | Will Bend | Price |
|---|---|---|
| No. 1 Jim Crow..... | 100 lb. Rail. | $..... |
| No. 2 Jim Crow..... | 75 lb. Rail. | |
| No. 3 Jim Crow..... | 55 lb. Rail. | |
| No. 4 Jim Crow..... | 30 lb. Rail. | |

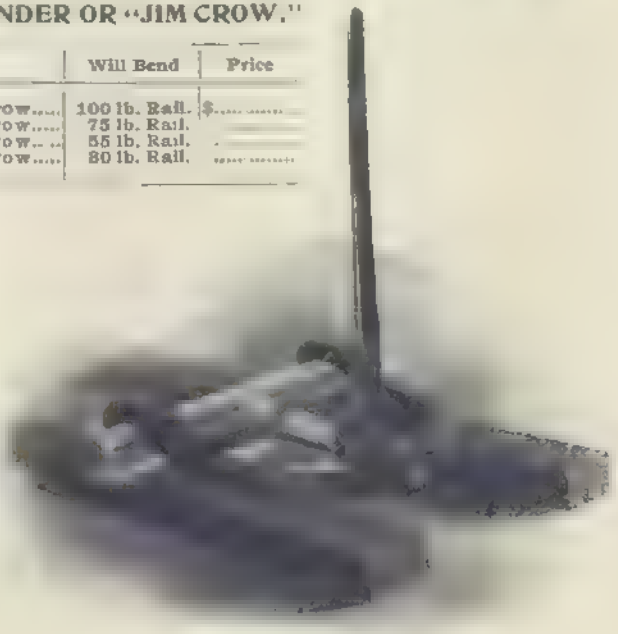


Fig 1124

## "PERFECTION" TRACK DRILL.

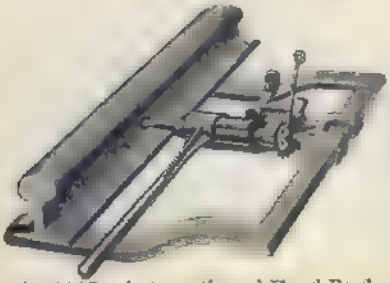


Fig. 1125. Automatic and Hand Feed

The frame is made in one piece and of heavy wrought iron; cannot get out of shape, and has no joints to work loose

The automatic feed is so arranged that it feeds positively and regularly without strain on any part and without breaking bits, and enables one man to drill rails, easily, quickly and correctly.

This drill can be left in track without danger to passing trains.

It is, as its name indicates, a "perfect" track drill.

Price, complete, with two bits, each, $12.00.

## PAULUS AUTOMATIC FEED TRACK DRILL.

Paulus Patent

Weight, 90 pounds

Price . . . . . $

Fig. 1126. In position for drilling

## BUDA PATTERN HEAVY BASE TRACK DRILL.

These Automatic Feed Track Drills are the only practical devices known whereby the operator is able to stand in an erect position while drilling holes in rails and angle-bars

A great saving in both time and labor is effected by use of these machines, one man being able to easily drill five holes with one of them in the same time in which one hole can be made with the ordinary ratchet drill They require no adjustment, are always ready for instant use, and it takes but a few second to collapse the drill and to throw back the hooks to enable a train to pass. The automatic feed enables the operator to drill through the web of the heaviest rail section without stopping

Especial attention has been given in the construction of these drills to both strength and durability

Weight, 60 lbs

Price . . . . . $

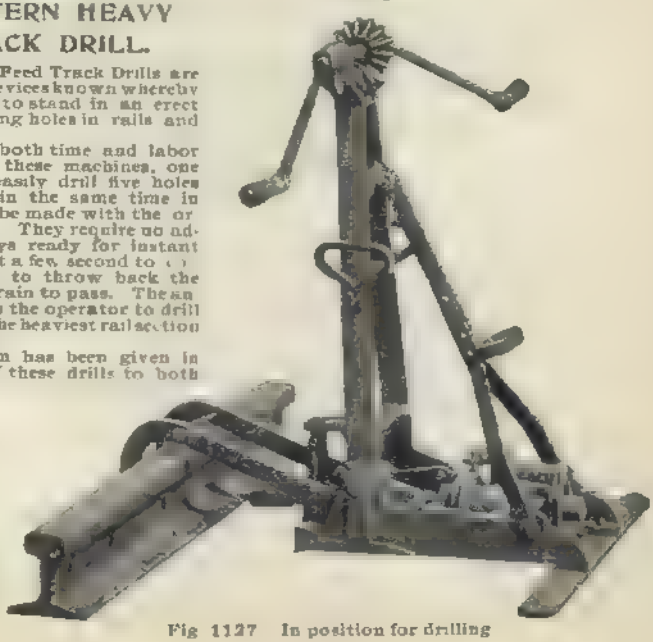


Fig 1127 In position for drilling

## TRACK CHISELS.

Fig. 1157

Fig. 1158. Cold Cutting.

Verona No. 1, Solid Steel, per lb., $0 25 | Verona No. 40, Solid Steel, per lb., $0.25

## TRACK PUNCHES.

Fig. 1159

Fig. 1160 Round Point.

Verona No. 29, Solid Steel, per lb. $0 25 | Verona No. 36, Solid Steel, per lb., $0.25

## SPIKE MAULS.

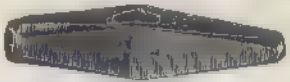


Fig. 1161

Fig. 1162. New Pattern

Verona No. 6, Solid Steel, per lb. $0 1[illegible] Verona No. 5, Solid Steel, Oval Eye, Per lb. ..... $0.16

## SHIP MAULS.

Fig. 1163

Verona No. 58, Solid Steel, per lb..... $0.20

## STAR VENTILATORS AND CHIMNEY CAPS.

Fig. 1164
Galvanized Iron

**A substantially constructed ventilating apparatus and chimney top, whereby an apartment may be readily ventilated and an unobstructed draft created in a chimney or flue to which it is applied.**

Price List.

| | | | | | |
|---|---|---|---|---|---|
| [illegible]in | $1 00 | 10 in. | $5 75 | 24 in | $ 40.00 |
| 2½ " | 1 00 | 11 " | 6.20 | 26 " | 50 00 |
| 3 " | 1 51 | 12 " | 6 75 | 28 " | 60 00 |
| 3½ " | 1.70 | 13 " | 9 00 | 30 " | 65 00 |
| 4 " | 1 75 | 14 " | 13 00 | 32 " | 80 00 |
| 4½ " | 3.0 | 15 " | 16 00 | 34 " | 100 00 |
| 5 " | 2 50 | 16 " | 20 00 | 36 " | 120 00 |
| 5½ " | 2,85 | 17 " | 23 00 | 40 " | 180 00 |
| 6 " | 3 40 | 18 " | 27 00 | 44 " | 210 00 |
| 7 " | 4 00 | 19 " | 30 00 | 48 " | 240 00 |
| 8 " | 4 65 | 20 " | 33 00 | 54 " | 300,00 |
| 9 " | 5 20 | 22 " | 36 00 | 60 " | 360,00 |

If square or oblong base is required it is charged extra

Fig 1153

## AXES.

PEERLESS DIAMOND, Single Bit. . . . . per doz $.....
Weights, assorted: 3¼-4¼, 3½-4½, 3¾ 4¾, 4-5, 4½-5½.

PEERLESS DIAMOND, Double Bit .... .per doz. $.....
Weights, assorted: 3½-4½, 3¾-4¾, 4-5, 4½-5½.

We can furnish other brands.

Prices upon application.

## RAILROAD ADZES.

Fig. 1154

Price per doz.. . . ..... ..... . . . . . ..$25 00

## GRUB HOES.

Fig. 1155

No. 2, 4 lbs., per doz . . . . . 12 50
No. 3, 4½ lbs., per doz . . . . . ...$13 00

## MATTOCKS.

Fig. 1156

Adze Eye, Long Cutter, per doz . . . . . .$19.50
Plain Eye, Long Cutter, per doz . . . . . 18 50

## HEADLIGHTS.

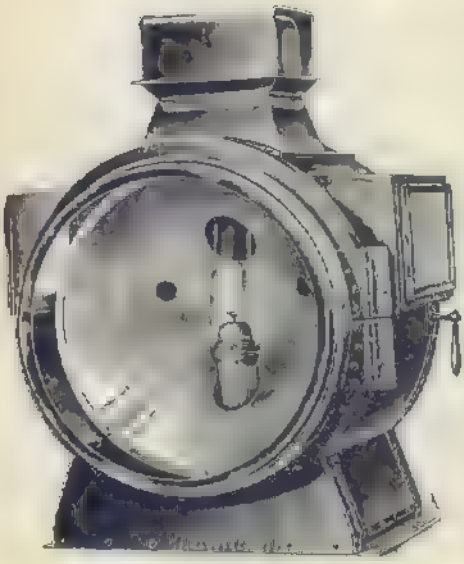


Fig. 1234. B No. 165

Fig 1235. A No. 100

We furnish two classes of Headlights: Class A is of the latest up to date grade of O. H. Steel, all castings malleable iron, brass fillers, on oil pots, glass holders etc., and in every detail furnished above the regular grades.

The Class B Headlights are made to compete with regular lamps on the market.

**Class A No 100** Headlight with front and side doors and wood bottoms made in sizes 16 in., 18 in. and 20 in.

**Class B No. 108** Headlight, with side door only, wood bottom, made in sizes 14 in., 16 in., 18 in. and 20 in.

**Class B No. 116** Headlight, with front door only, wood bottom and single frame made in sizes 14 in., 16 in., 18 in., 20 in. and 28 in.

**Class B No. 163** Headlight, with side door only, steel bottom, known as "Wabash Headlight" made in sizes 16 in., 18 in., and 20 in.

**Class B No. 169** Headlight, same as No. 165 but with wood in place of steel bottom, made in sizes 16 in., 18 in. and 20 in.

**Class A No. 167** Headlight, with front and side number signals, side door only, wood bottom, best grade, made in sizes 16 in. and 18 in.

**Class B No. 168** Headlight, with front and side number signals, side door only, steel bottom, regular grade made in sizes 16 in. and 18 in.

**Class B No. 130** Headlight, Square case, furnished in sizes 14 in., 16 in. and 18 in.

A No. 167. Fig 1236. B No. 169.

**Class B No. 132** Headlight, square case, furnished in sizes 20 in. and 24 in.

**The No. 134** is the same as No. 130 except that the latter is furnished with octagon or flat top

**10-Inch No. 2 Oil Headlight.** **10-Inch No. 3 Oil Headlight.**

**8-Inch Lense No. 5 Oil Headlight.**

**Price on any style or size furnished upon application.**

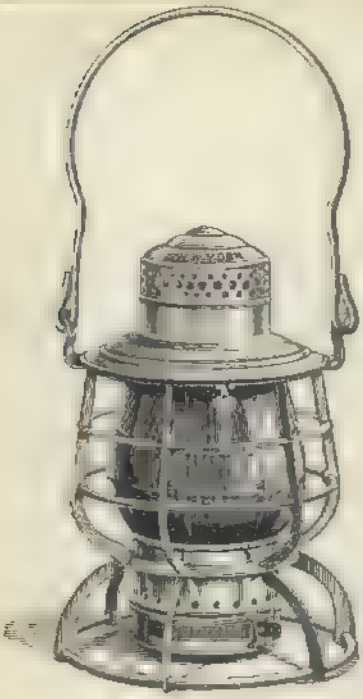


Fig 1237

## "ARMSPEAR" STEEL GUARD LANTERNS.

The new steel lantern frames are made from steel plate. The ring guards are continuous, doing away with weak tipped joints. The upright guards are of one piece and extend below the oil pot forming the base. The guards, being wider than they are thick, and placed edgewise to the globe, afford the greatest possible strength to resist lateral blows, which a lantern is most subject to, and at the same time cause the least possible obstruction to the light.

### "Armspear" Lantern.

Double Guard. The strongest and best. Takes No. 39 globe. Fitted with any style and size of burner specified.

Price, per dozen . . . . . .$ .. .....

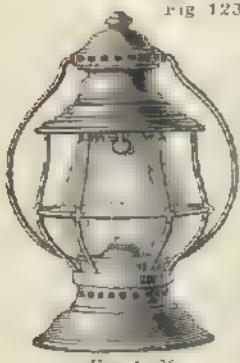


Fig 1238

## CONDUCTORS' LANTERNS.

The **"Gem"** (Fig. 1238), made with hinge top and with spring globe adjuster. The oil cup screws into the bottom and is so arranged as to form a drip cup for overflow of oil. Takes "Queen" globe.

The **"Railway Queen"** (Fig. 1239) is preferred by some on account of the open or skeleton bottom which casts no shadow. In other respects is the same as the "Gem." Takes "Queen" globe.

Price, each... . . ..$. . .

Fig 1239

Fig 1240

## GAUGE LAMPS.

Fig. 1240. Globe is cemented in, but all other parts are removable. Heavy threaded brass castings in base.

Price, each ..... ...$ .. —

Fig. 1241. Globe is removable. Plain or painted globes. Furnished without hood.

Price, each.... . .. . . . ...$. ..

Fig 1241

## ELEVATORS.

Passenger and Freight Elevators. Electric, Belt-Power and Hand Power Elevators.

Spur-Geared and Worm-Geared Pattern

Winding machine arranged to set on floor or to be suspended from the ceiling

Only the best materials and the most skilled labor used in the construction and erection of our elevators.

Parties desiring estimates should state maximum load, speed of car, size of car, style of car (whether of the side-post or corner-post pattern), distance of travel, number of landings; and where we are expected to furnish complete estimates we should have a drawing showing the location of projected elevator, hatchway and machinery)

Fig. 987

**Wire Cables for Elevators.** **Dumb Waiters.**

**Automatic Hatchway Doors.** **Side Walk Elevators.**

## BROWN PATENT STEEL TROLLEYS.

Plain.

Fig. 988

The trolley travels effected by pulling the block along by its hand chain or by pushing on the load.

Steel Trolleys, either geared or plain, will be furnished for any weight of I beam

| Capacity in Tons | Price | Weight | Diameter of Wheel in Inches. | Standard Size of I Beam in Inches. | Pull in Lbs to move Full Load. | Smallest Radius for Curves in Inches. |
|---|---|---|---|---|---|---|
| ¼ | $23 50 | 40 | 3 | 5 | 20 | 21 |
| ½ | 26 00 | 50 | 4 | 5 | 26 | 21 |
| 1 | 30 00 | 75 | 5 | 6 | 47 | 27 |
| 1½ | 33 00 | 100 | 6 | 7 | 65 | 32 |
| 2 | 35 00 | 125 | 7 | 8 | 74 | 36 |
| 3 | 52 50 | 175 | 8 | 9 | 108 | 42 |
| 4 | 65 00 | 300 | 9 | 10 | 136 | 48 |
| 5 | 85 00 | 400 | 10 | 12 | 161 | 54 |
| 6 | 105 00 | 500 | 13 | 15 | 156 | 66 |
| 8 | 130 00 | 700 | 18 | 20 | 189 | 84 |
| 10 | 165.00 | 1200 | 22 | 24 | 213 | 99 |

Prices and details covering geared trolleys furnished upon application

Fig. 1512
10" L. Pos. Hammer Arranged for fitting to wood post, I beam or other form of steel column

## POST HAMMERS.

For Operation by Steam or Compressed Air

**Cylinder** is 3 inch diameter by 10 inch stroke. Valve 2½ inch diameter. Steam inlet 1 inch diameter; exhaust inlet 1¼ inch diameter. Piston 3 inch diameter by 3 inch thick; piston rod 1⅛ inch diameter. Clear space from center of die to center of post supporting the frame 10¾ inches. Usual die face 4 x 5 inches. Hammer has a falling weight of 100 lbs. Total shipping weight is about 575 lbs. Price, $..

## STEAM HAMMERS.

The Single Frame Steam Hammers are automatic, double acting, and readily operated by hand.

**Cylinder** has a balanced piston valve provided with improved self packing rings. The **Throttle valve** is under control of the operator. The **Steam valve** is operated by a cam running on a beveled path formed on the back of the ram. The position of this cam is governed by a hand lever in usual manner.

The **Piston Rod** is a steel forging, forged solid with the piston head, which latter is provided with cast iron packing rings.

**Frame** is provided with adjustable V guides for ram, each guide being held to the frame by bolts.

**Ram** is of solid steel, having cam paths solid therewith and V grooves to match guides in the frame.

The **Upper Die** is a steel casting fitted to ram by dovetail and wedge. The **Lower Die** is a steel casting fitted to anvil cap with dovetail and wedge, and is easily removable. The anvil cap is secured to anvil by dovetail and wedge.

An oil pump is provided to supply oil for valves and cylinder.

Fig. 1513, Single Frame.

### Single Frame.

| Size No. | Cylinder, in. | | Usual Die Face, in. | | Center of Die to Frame, in. | Pipes, in. | | Shipping Weight |
|---|---|---|---|---|---|---|---|---|
| | Dia. | Stroke | Upper Die | Lower Die | | Steam | Exh'st | |
| 200 | 5 | 16 | 4 x 7 | 4 x 10 | 12½ | 1½ | 2 | 4400 |
| 250 | 5 | 18 | 4½ x 7 | 4½ x 10 | 12½ | 1½ | 2 | 5000 |
| 400 | 6 | 19 | 5 x 8½ | 5 x 11 | 15 | 1½ | 2 | 7400 |
| 600 | 7 | 22 | 5 x 11 | 5 x 14 | 17 | 2 | 2½ | 11000 |
| 800 | 8 | 25 | 6 x 12½ | 6 x 16½ | 20 | 2 | 3 | 14000 |
| 1000 | 10 | 28 | 6 x 15 | 6 x 17 | 21 | 2½ | 3 | 18000 |
| 1100 | 10 | 30 | 7 x 13 | 7 x 17 | 21 | 2½ | 3 | 22000 |
| 1200 | 10 | 30 | 7 x 13 | 7 x 17 | 21 | 2½ | 3 | 23000 |
| 1250 | 10 | 30 | 7 x 13 | 7 x 17 | 21 | 2½ | 3 | 23500 |
| 1500 | 12 | 34 | 7 x 14½ | 7 x 18½ | 25 | 2½ | 3 | 25000 |
| 2000 | 13 | 36 | 8 x 16 | 8 x 20 | 28 | 2½ | 3 | 32000 |

### Double Frame.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2000 | 13 | 36 | 8 x 16 | 8 x 20 | 72¼ | 2½ | 3 | 29000 |
| 2500 | 14 | 39 | 10 x 17 | 10 x 21 | 74¼ | 3 | 4 | 35000 |
| 3000 | 15 | 42 | 10½ x 18 | 10½ x 22 | 76½ | 3 | 4 | 43000 |
| 5000 | 18 | 54 | 13 x 24 | 13 x 28 | 90½ | 3½ | 4½ | 65000 |

Prices upon application.

## BOYER PISTON AIR DRILLS.

These machines are adapted to boiler, tank and structural work, where extra heavy drilling, reaming and tapping are required

No. 2 will drill up to 3 inches in diameter in either iron or steel. Weight, 40 pounds.

Price .....$.....

No. 8 will drill up to 2 inches in diameter in either iron or steel. Weight, 35 pounds.

Price.. . .. ..... . . $.... .....

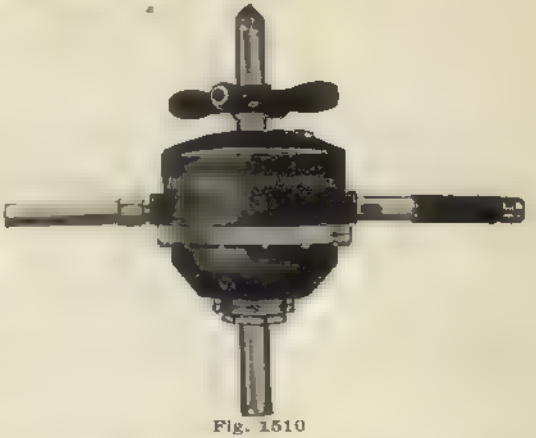


Fig. 1510

## LITTLE GIANT AIR DRILLS.

Represent the highest development of machines of their kind. Simpler in construction, lighter in weight, more powerful, durable and economical in the use of air than any other make in the market.

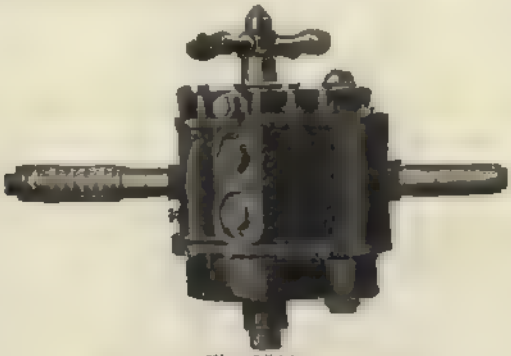


Fig. 1511.

### "Little Giant" Drills, Tappers, Reamers, Etc.

| Machine No. | Weight | Cubic Feet of Free Air per Minute | Morse Taper Socket in Spindle | Revolutions per Minute | Price |
|---|---|---|---|---|---|
| 0 | 55 | 45 | Nos 4 or 5 | 150 | $. .... |
| 1 | 35 | 35 | No 4 | 210 | ... |
| 2 | 25 | 25 | " 3 | 275 | |
| 3 | 10 | 15 | " 1 | 750 and 1200 | |
| 4 | 15 | 20 | " 2 | 450 | ... |
| 11 | 35 | 35 | " 4 | 200 | . |
| 12 | 26 | 25 | " 3 | 225 | |
| *8 | 14 | 20 | 1½ inch Auger Bit | | $ . |
| *14 | 20 | 25 | 3 inch Auger Bit | | |

Adapted For.

No. 0 Boring cylinders and extra heavy drilling, reaming and tapping.
No. 1. Drilling up to 2½ inch and reaming and tapping up to 2 inch
No. 2 Drilling up to 1¼ inch and reaming and tapping up to 1 inch.
No 8. Drilling up to ½ inch
No. 4. Drilling up to ¾ inch and grinding steam pipe joints.
No. 11. Flue rolling, up to 3 inch, reaming and tapping up to 2 inch.
No 12. Flue rolling up to 2½ inch, reaming and tapping up to 1 inch.
* For wood boring. Capacity given is for boring in oak.

## SAW-MILL CARRIAGE.

With No. 2½ Steel Beam.

Rock and Pinion Head Blocks.

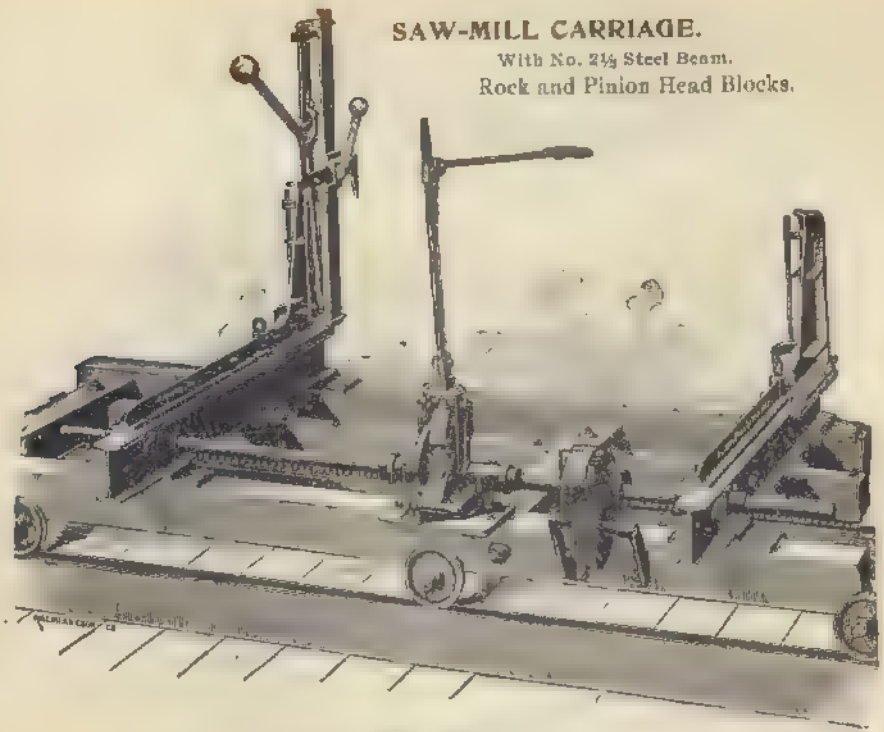


Fig. 1579

## SAW-MILL DOGS.

### The Craney Patent Mill Dog.

Made right or left-hand. Requires no adjustment and does not injure the face of the lumber. Price per pair, $

Can also furnish Craney 6-tooth Mill Dog.

### Knight's Patent Saw-Mill Dog.

For simplicity, durability, rapidity and general effective work they are unequalled.

| | | |
|---|---|---|
| Pony size | pair, | $40 00 |
| Stand'd size | pair, | 60 00 |
| Large size | pair, | 65 00 |
| Duplex | pair, | 75 00 |

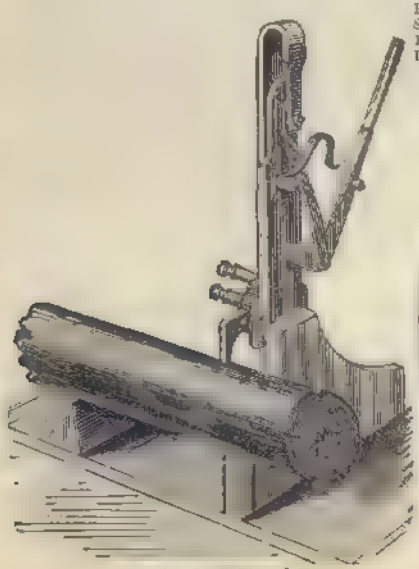


Fig. 1580. Left-Hand Dog.

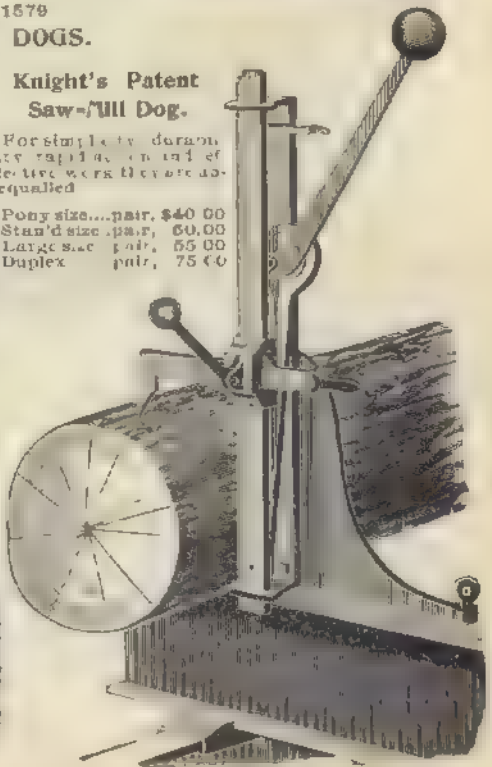


Fig. 1581. Right-Hand Dog.

## KILGORE AIR CUSHION.

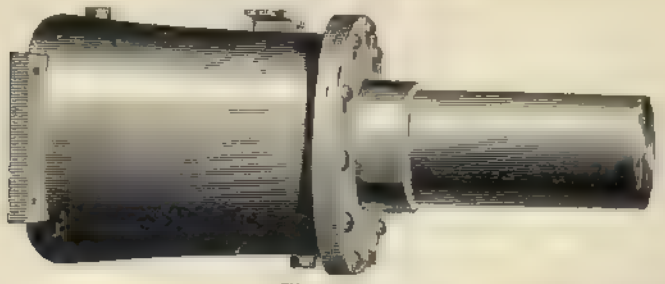


Fig 1582.

This Kilgore Air Cushion is built to stop carriages without jar. It consists of a cast iron cylinder bored out and fitted with a piston having a projection on one side to receive the blow from the carriage which compresses air in the back end of cylinder and causes a vacuum in front end, giving powerful resistance when the piston is driven in. It is simple and durable, will not break or wear out under constant bumping.

Will increase the cut by allowing the sawyer to run his carriage at full speed without danger. One cushion at each end of the track to act against a plate on the end of the carriage is a guaranty against injury to men or machinery.

A 12x12 for very light 2 block carriages.
B 12x16 for light 2 block carriages.
C 15x18 for medium 2 block carriages.
D 15x24 for heavy 2 block carriages.
E 20x30 for heavy 3 block carriages.
F 30x40 for medium 4 block carriages.

## IMPROVED ROTARY VALVES.

For Steam Feed.

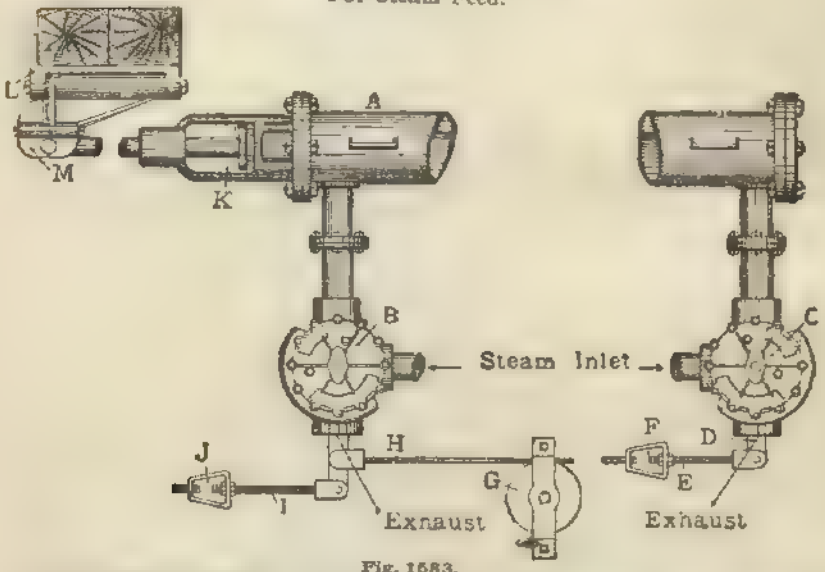



Fig. 1583.

We call special attention to the latest improvement in rotary valves, which is the placing of an outside adjustable end bearing on each end of the valve. If the steam pressure throws the valve in either direction, these bearings act as a cushion and do away with all friction between the valve and head.

With each set of valves we furnish everything necessary to set them up, excepting sawyer's lever, steam pipes and connecting rods B, H and I. We tap the connections, however, to receive said rods, which are to be made of ¾-inch gas pipe. All valve openings are tapped for 3½ inch or 4 inch pipe.

**Special Steam Niggers. Single Cylinder Steam Niggers.**
**Nigger Valves. Log Decks. Center Valves. Steam Feeds.**
**Board Trips. Cant Trips. Gang Trips.**
**Steam Kicker or Log Unloader.**

## MALLEABLE IRON PIPE VISES.

Fig. 351

Fig. 352

Price List.

| | FIG. 351 | | FIG. 252 | | |
|---|---|---|---|---|---|
| Number | 1 | 2 | 20 | 25 | 30 |
| Holds pipe from | ⅛ to 2 in. | ⅛ to 3 in. | ½ to 4½ in. | ½ to 5 in | 1 to 6 in. |
| Weight, pounds | 20 | 26 | | | |
| Price, each | 10 00 | 14.00 | 30 00 | 30 00 | 36 00 |

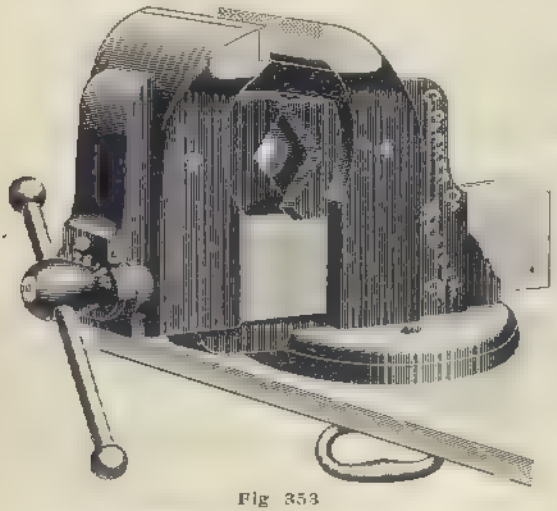


Fig 353

## COMBINATION PIPE VISES.

| Number | 87 | 88 |
|---|---|---|
| Holds pipe from, inches | ⅛ to 2 | ⅛ to 3 |
| Price, each | 16.00 | 20 00 |

| Number | 288½ | 289½ |
|---|---|---|
| Holds pipe from, inches | ⅛ to 4 | ⅛ to 6 |
| Price, each | 28 00 | 35.00 |

Swivel Base—Also furnish the two larger sizes with Stationary Base.

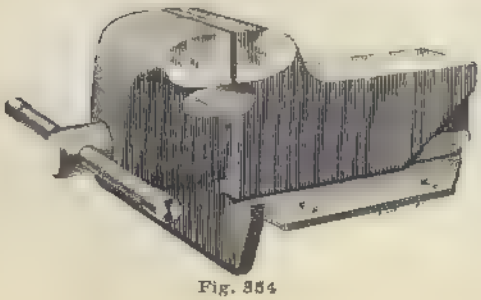


Fig. 354

## THE CROSBY VISE.

Eight inch Jaws, Weight 200 Pounds.

Built especially for hard usage.
Not a trappy swivelling Vise.
Nor a faulty "Quick Action" Vise.
But a rigid substantial Vise.

Price, $... .... .

## WHEEL WRENCH.

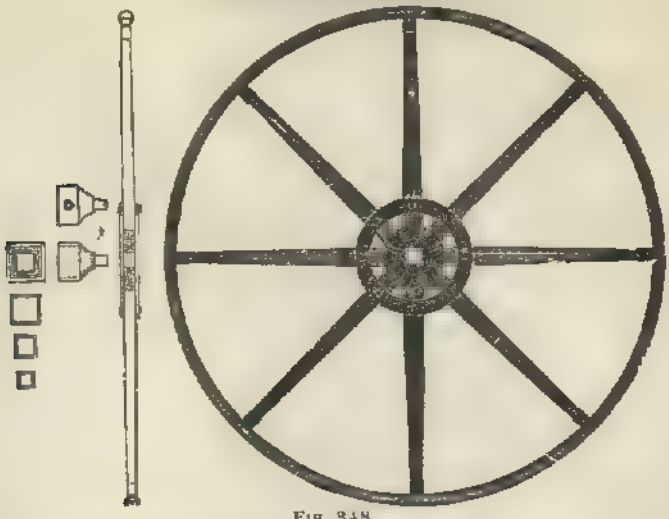


Fig. 348.

Price, Each..... $.....

## LOWELL RATCHET WRENCHES.

Fig. 349

This Wrench can be changed to a right or left hand motion at pleasure

| | Price Wrench | Price Gear Each. |
|---|---|---|
| No. 1, 10 in. lever, ⅜, ½, ⅝ in. Square nut, ⅝, ¾ in. Hexagon..... | $3 00 | $0 50 |
| No 2 12 in lever, ½, ⅝ ¾ in. Square nut, ¾, ⅞, 1 in. Hexagon . . . . | 4 00 | 60 |
| No 3 15 in lever, ¾, ⅞, 1, 1⅛ in Square nut, 1, 1⅛, 1¼ in Hexagon | 5 00 | .75 |
| *No 3½ 18 in lever | 6 00 | |
| No. 4, 18 in. lever, 1⅛, 1¼, 1⅜, 1½ in Square nut 1¼, 1½, 1¾ in. " | 7.00 | 1.00 |

* This Handle takes a No. 3 gear

Price, Wrench includes one gear only.

## STEEL SOCKET BRIDGE WRENCH.

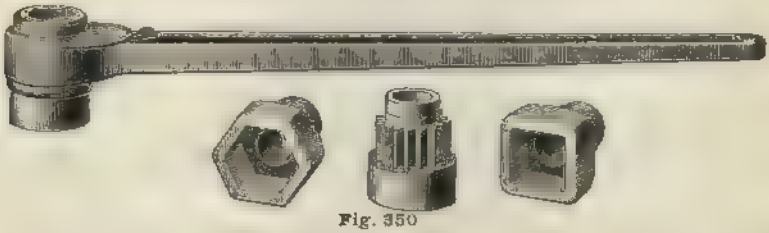


Fig. 350

Convenience.—They will turn nuts on or off without removing the wrench, and soon make good their cost by saving labor.

| | Length of Handle | Clear Hole through Socket | Weight about | This Size will take Sockets for— Square Nuts. | Hexagon Nuts. |
|---|---|---|---|---|---|
| No. 1 . . . | 2 ft. | for 1⅛ in. bolt | 10 lbs. | 1⅝, 1½, 1⅝, 1¾, 2 | 1½, 1⅝, 1¾, 2 |
| No 2. . | 3 ft. | 1¾ in. | 23 lbs. | 2¼, 2½, 2¾, 3 | 2¼, 3½, 2¾, 3, 3¼ |
| No 3 . . . | 3 ft. | 2½ in. | 50 lbs | 3 3¼, 3½, 3¾, 4, 4¼, 4½ | 3, 3¼, 3½, 3¾, 4, 4¼, 4½ |

Price, with a single socket..... No. 1, $8 00 No. 2, $14.00 No. 3, $20.00
Price of each additional socket . . . . No 1, 1.00 No 2, 2.50 No 3, 4.50

Please order by size of nut, small diameter, rather than by size of bolt. Odd sizes made to order.

## PORTABLE TACHOMETERS.

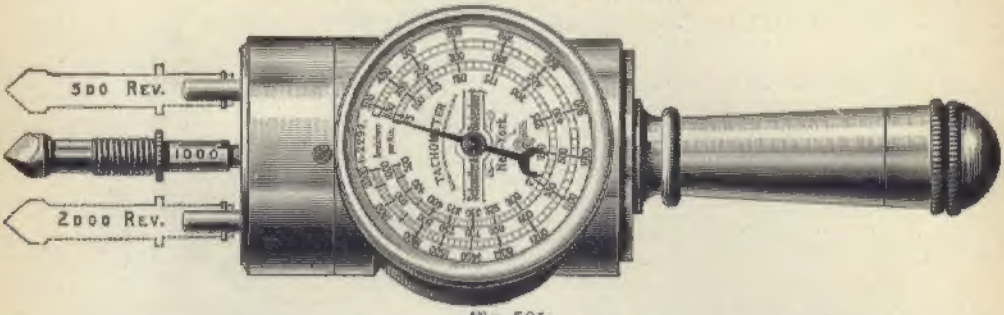



Fig. 501

They are of excellent workmanship and finish, are furnished in elegant Morocco cases for easy transportation.

They are provided with three scales generally reading from

60 to 300 revolutions per minute 120 to 600 revolutions per minute

600 to 3000 revolutions per minute

but are made to order for any desired speeds not exceeding 3000 revolutions per minute.

The point only is detachable and may be fastened to any one of the three arbors marked to correspond with speed on dial. Price, $60.00.

## STARRETT'S HIGH SPEED INDICATOR.

No. 104.

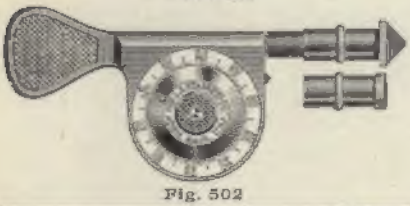


Fig. 502

| | |
|---|---|
| Price | $1.00 |
| In Leatherette case | 1.50 |

We supply the Indicators with a spindle 7½ inches long for use on Dairy Machines, etc., for 50 cents extra.

## THE TABOR SPEED COUNTER.

With Stop Motion.

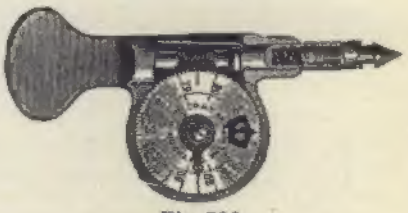


Fig. 503

Sent, post-paid, to any address in the United States on receipt of $1.00.

Special discounts to the trade for dozen and gross lots.

## "LIGHTNING" SPEED INDICATOR.

Rubber Tip. For Shafting.

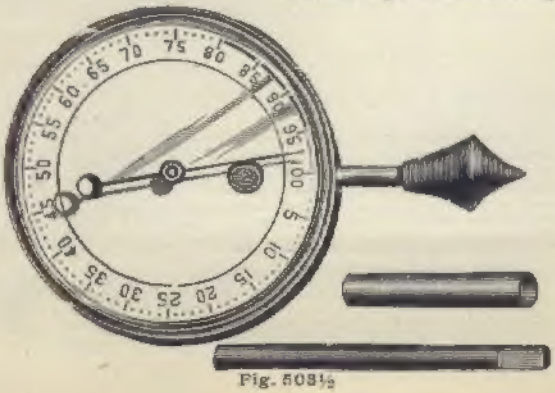


Fig. 503½

It registers as high as 1,000 as seen by the cut, which is actual size. The body constitutes the handle. Has a rubber tip on the spindle, a silver-plated dial and the face covered with a watch crystal. Will stand over 15,000 rotations per minute.

Price, each..... $2.50

## REVOLUTION COUNTERS.

### ROUND CASE COUNTERS.

| Size | Brass Case | N. P., O. G. or Oct. Ring |
|---|---|---|
| 8½ inch Dial, 8 Wheels.. | $80.00 | $82.50 |
| 6¾ " " 6 " .. | 60.00 | 62.00 |
| 6 " " 6 " .. | 50.00 | 52.00 |

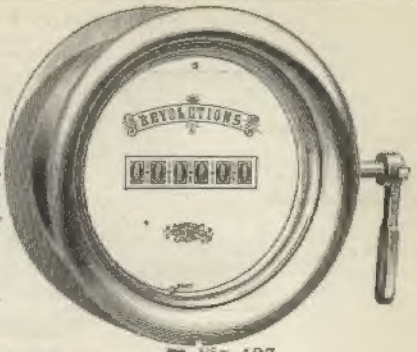



Fig. 497

### SQUARE CASE COUNTERS.

Fig. 498.

For Engines, Pumps, Etc.

| | | | | | |
|---|---|---|---|---|---|
| 4½x1¾, 4 Figures | 10,000 ..... | $13.50 | 5½x1¾, 6 Figures | 1,000,000..... | $20.00 |
| 5 x1¾, 5 " | 100,000..... | 16.00 | 6 x1¾, 7 " | 10,000,000..... | 24.00 |

### RATCHET COUNTERS.

No. 2.

CUTS FULL SIZE.

Fig. 499

No. 2, Ratchet Counter has an internal ratchet mechanism and on the outer end of the main shaft a small operating lever is clamped, the arrangement being such that each complete oscillation of the lever moves the right-hand index ring one figure. It will register up to 99,999 when the next stroke will set all figures to zero ready for repeating, but they cannot be set to zero from any intermediate point. Price, $1.00.

### REVOLUTION COUNTERS.

No. 4.

Fig. 500

No. 4, Revolution Counter is very much the same in appearance as the No. 2 instrument, but a complete revolution is required for each registration. Price $1.00.

## THE BENTON TALLY REGISTER.

These little registers are positive in their action and can be set to zero at will. They are about the size of an ordinary watch and weigh about 6 ounces. They are used by railroad, telegraph and steamboat men for checking or tallying ties, telegraph poles, and passengers of all kinds or freight, by cattlemen for counting cattle and sheep, by lumber-men, loggers and timber estimators.

| | | | |
|---|---|---|---|
| No. 00 | Records to 100 | Each | $3.00 |
| No. 0 | " " 1000 | " | 3 50 |
| No. 1 | " " 10000 | " | 4.50 |

Fig. 500½.

## WESTERN CHIEF DRILLS.

No. 2.

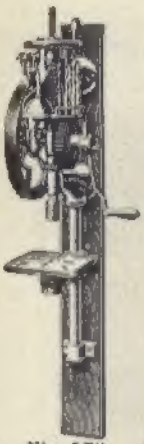


Fig. 572.

No. 3.

Fig. 573.

No. 4.

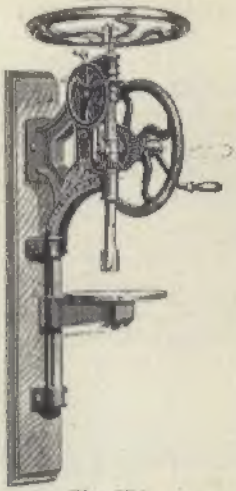


Fig. 574.

No. 12.

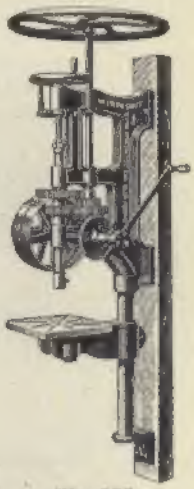


Fig. 575.

| | Drills to Center of, Inches. | Takes Bits with Shank, Inches. | Bores from, Inches. | Weight, Lbs. | Price, Power Only. | Price, Hand Power Only. | Price, Combined Hand & Power. |
|---|---|---|---|---|---|---|---|
| No. 2... | 15 | ½ or 31/64 | 0 to 1½ | 135 | ..... | $14.50 | $16.50 |
| No. 3... | 14½ | " | " | 160 | ..... | 10.00 | 12.00 |
| No. 4... | 18 | " | " | 200 | ..... | 17.50 | 19.50 |
| No. 12 | 16 | " | " | 200 | ..... | 27.50 | 31.50 |
| No. 14 | 21 | " | " | 315 | ..... | 38.50 | 42.50 |

No. 14.

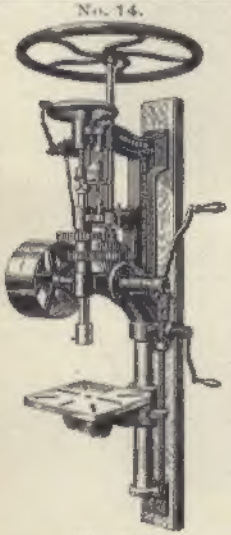


Fig. 576.

## SMALL PRESSURE BLOWERS.

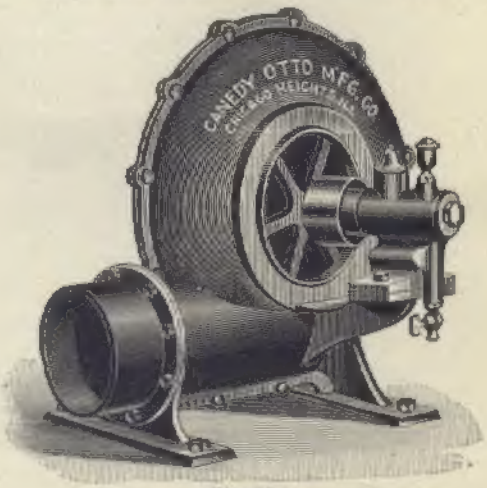



Fig. 577.

| No of Blower. | Height in Inches. | Diam. of Inlet. | Diam. of Outlet. | Diam. of Pulley. | Face of Pulley. | Revolutions per Minute, 2 oz. Blast for Boiler Fires. | Revolutions per Minute, 4 oz. Blast for Forge Fires. | No. of Forge Fires. | Price. |
|---|---|---|---|---|---|---|---|---|---|
| P 1 | 10 | 3⅝ | 2¾ | 1⅞ | 1¼ | 3,675 | 4,640 | 1 | $12 00 |
| P 3 | 18 | 5¾ | 4¾ | 3 | 2½ | 2,600 | 3,600 | 4 | 20 00 |

These Blowers are adapted to forge fires and small, light cupola work. They are very strong and durable, smooth running, and handsome in appearance.

## DUDGEON PATENT ROLLER TUBE EXPANDER.

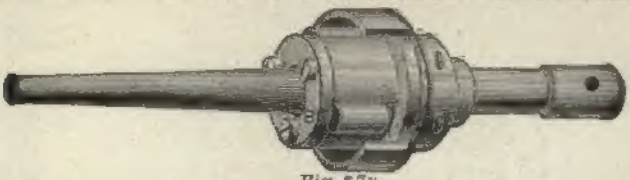


Fig. 578.

By means of this Expander the Tubes can be expanded without striking a blow on them, thus rendering them far less liable to crack.

Price List.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1¾ | inches | $25.00 | 2½ | inches | $42.00 | 3½ | inches | $ 70.00 | 5 | inches | $120.00 |
| 1⅞ | " | 25 00 | 2⅝ | " | 48.00 | 4 | " | 85.00 | 6 | " | 130.00 |
| 2 | " | 30 00 | 3 | " | 55.00 | 4½ | " | 100.00 | 7 | " | 180 00 |
| 2¼ | " | 35.00 | 3¼ | " | 60.00 | | | | | | |

One Expander will answer for any thickness of Tube Sheet.

## DUDGEON IMPROVED ROLLER TUBE EXPANDER.

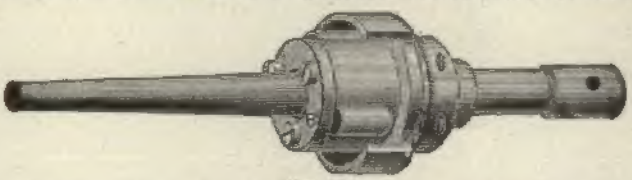


Fig. 579.

This tool will expand two sizes up to two inches, and three sizes above.

Price List.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1⅝ and 1¾ | inches | $20.00 | 2¾, 2⅞ and 3 | inches | $45.00 | 4¼, 4⅜ and 4½ | inches | $ 85.00 |
| 1⅞ " 1⅞ | " | 20.00 | 3, 3⅛ | " 3½ | " | 52.00 | 4½ 4⅝ | " 4¾ | " | 85.00 |
| 1⅞ " 2 | " | 25.00 | 3¼, 3⅜ | " 3¾ | " | 60.00 | 4¾, 4⅞ | " 5 | " | 90.00 |
| 2, 2⅛ and 2¼ | " | 30.00 | 3½, 3⅝ | " 3¾ | " | 70.00 | 5, 5⅛ | " 5½ | " | 100.00 |
| 2¼, 2⅜ " 2½ | " | 36.00 | 3¾, 3⅞ | " 4 | " | 75.00 | 5½, 5¾ | " 6 | " | 105.00 |
| 2½, 2⅝ " 2¾ | " | 39 00 | 4, 4⅛ | " 4¼ | " | 80.00 | 6, 6¼ | " 6½ | " | 115.00 |

One Expander will answer for any thickness of Tube Sheet.
Larger Sizes Made to Order.

## ROLLER TUBE EXPANDER.

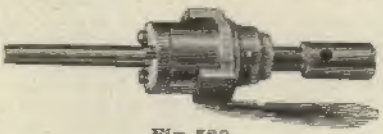


Fig. 580.

Price List.

| Diameter, inches | 1 | 1¼ | 1½ | 1¾ | 1⅞ | 2 | 2¼ | 2½ | 2¾ |
|---|---|---|---|---|---|---|---|---|---|
| Each | $10.00 | $10 00 | $10.00 | $10.00 | $10.00 | $10.00 | $12.00 | $14.00 | $16.00 |

| Diameter, inches | 3 | 3¼ | 3½ | 3¾ | 4 | 4¼ | 4½ | 5 | 6 |
|---|---|---|---|---|---|---|---|---|---|
| Each | 18.00 | 20.00 | 23.00 | 25.00 | 30.00 | 35.00 | 40.00 | 50.00 | 60.00 |

## PROSSER'S BOILER TUBE EXPANDER.

Fig. 581.

Price List.

| Outside Diameter of Tube, inches | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ |
|---|---|---|---|---|---|---|
| Each | $ 8.00 | $ 9.00 | $11.00 | $12.00 | $13.00 | $15 00 |

| Outside Diameter of Tube, inches | 2¾ | 3 | 3¼ | 3½ | 4 | 4½ |
|---|---|---|---|---|---|---|
| Each | 18 00 | 22.00 | 26.00 | 30.00 | 33 00 | 37.00 |